

CTS 850 Cross-Reference listing Vertical Menu Choices

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There are now two separate files. Each begins with the various major menus (Test Setups, Tx #1, Tx #2, Utility, etc.) and lists, for each horizontal menu button, the associated HIF page(s) and the sequence numbers of those pages in the listing. This "index" is new.

Then comes the main listing, a picture of each HIF screen listing the menu items on the screen together with their screen labels and either (1) the remote commands associated with each item, or (2) the vertical menu button choices associated with each item (new).

Document file **85p2cmds.doc** lists Remote Commands; Document file **85p2vert.doc** lists the Vertical Menu Choices.

INDEX

** denotes pages that have no menus and are not shown

----P_RESULTS_MAJOR_MENU1----

TEST	SDH	PDH	JITTE	ERROR	PERF	-more
SUMMA	RESUL	RESUL	WANDE	ANALY	ANALY	1 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	**	P_RESULTS_TEST_SUMMARY_PARAM1
2.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
3.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
4.	**	P_RESULTS_ALL_RESULTS_PARAM10
5.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
6.	3	P_PERFORMANCE_ANALYSIS_M2101_PARAM1

----P_RESULTS_MAJOR_MENU2----

TEST	SDH	PDH	HISTO	SAVE	RECAL	-more
SUMMA	RESUL	RESUL	GRAPH	RESUL	RESUL	2 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	**	P_RESULTS_TEST_SUMMARY_PARAM1
2.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
3.	**	P_RESULTS_ALL_RESULTS_PARAM1
	**	P_RESULTS_ALL_RESULTS_SDH_SECTION_DEFECTS_PARAM1
4.	**	P_RESULTS_HISTORY_GRAPHS_PARAM1
5.	7	P_RESULTS_SAVE_RESULTS_PARAM1
6.	6	P_RESULTS_RECALL_RESULTS_PARAM1

----P_RX_MAJOR_MENU----

RECEI	SIGNA	JITTE	TRANS	PATH
SETTI	STATU	WANDE	OVERH	OVERH
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	19	P_RX_SETTINGS_PARAM1
	20	P_RX_SETTINGS_TRIB_PARAM1
2.	**	P_RX_SIGNAL_STATUS_PARAM1
	**	P_RX_SIGNAL_STATUS_PARAM2
3.	11	P_RX_JITTER_WANDER_PARAM1
	**	P_TX_JITTER_PARAM1_NO_OPTION
4.	22	P_RX_TRANSPORT_OVERHEAD_PARAM1
5.	12	P_RX_PATH_OVERHEAD_PARAM1
	13	P_RX_PATH_OVERHEAD_V5_PARAM1
	14	P_RX_PATH_OVERHEAD_VC12_PARAM1
	15	P_RX_PATH_OVERHEAD_VC3_PARAM1

----P_RX_SDH_MAJOR_MENU1----

RECEI	64k R	SIGNA	ANALY	JITTE	-more
SETTI	SETTI	STATU	CONFI	WANDE	1 of
<bmp>	<bmp>	<bmp>	<bmp>	<bmp>	<bmp>

Button	Page	
1.	17	P_RX_SDH_SETTINGS_PARAM1
	18	P_RX_SDH_SETTINGS_TRIB_PARAM1
2.	16	P_RX_SDH_K64_SETTINGS_PARAM1
3.	**	P_RX_SIGNAL_STATUS_PARAM1
	**	P_RX_SIGNAL_STATUS_PARAM2
4.	8	P_RX_ANALYSIS_CONFIGURATION_SETTINGS_PARAM1

```

5.      11  P_RX_JITTER_WANDER_PARAM1
      **   P_TX_JITTER_PARAM1_NO_OPTION
=====

----P_RX_SDH_MAJOR_MENU2----
RECEI   64k R      SECTI      PATH      Rx CA      -more
SETTI   SETTI     OVERH     OVERH     VOICE     2 of
<bmp>  <bmp>     <bmp>     <bmp>     <bmp>     <bmp>
-----
Button  Page
  1.    17  P_RX_SDH_SETTINGS_PARAM1
        18  P_RX_SDH_SETTINGS_TRIB_PARAM1
  2.    16  P_RX_SDH_K64_SETTINGS_PARAM1
  3.    22  P_RX_TRANSPORT_OVERHEAD_PARAM1
  4.    12  P_RX_PATH_OVERHEAD_PARAM1
        13  P_RX_PATH_OVERHEAD_V5_PARAM1
        14  P_RX_PATH_OVERHEAD_VC12_PARAM1
        15  P_RX_PATH_OVERHEAD_VC3_PARAM1
  5.     9  P_RX_CAS_VOICE_SETTINGS_PARAM1
        10  P_RX_CAS_VOICE_SETTINGS_PARAM2
=====

----P_TEST_SETUP_MAJOR_MENU----
TEST     RECAL      RECAL      SAVE      SAVE      JITTE
        INSTRUMENT PASS/      INSTRUMENT PASS/
CONTR    SETUP     TESTS     SETUP     TESTS     TESTS
-----
Button  Page
  1.    36  P_TEST_SETUP_TEST_CONTROL_PARAM1
  2.    32  P_TEST_SETUP_RECALL_INSTRUMENT_SETUPS_PARAM1
  3.    33  P_TEST_SETUP_RECALL_PASS_FAIL_TESTS_PARAM1
  4.    34  P_TEST_SETUP_SAVE_INSTRUMENT_SETUPS_PARAM1
  5.    35  P_TEST_SETUP_SAVE_PASS_FAIL_TESTS_PARAM1
  6.    25  P_TEST_JITTER_OUTPUT_PARAM1
        26  P_TEST_JITTER_POINTER_PARAM1
        27  P_TEST_JITTER_RECALL_RESULTS
        28  P_TEST_JITTER_SAVE_RESULTS
        29  P_TEST_JITTER_SPECTRUM_PARAM1
        30  P_TEST_JITTER_TOLERANCE_PARAM1
        31  P_TEST_JITTER_TRANSFER_PARAM1
        **  P_TEST_JITTER_VIEW_DATA_TOLERANCE
        **  P_TEST_JITTER_VIEW_DATA_TRANSFER
        **  P_TEST_JITTER_VIEW_GRAPH_SPECTRUM
        **  P_TEST_JITTER_VIEW_GRAPH_TOLERANCE
        **  P_TEST_JITTER_VIEW_GRAPH_TRANSFER
        **  P_TX_JITTER_PARAM1_NO_OPTION
=====

----P_TX_MAJOR_MENU----
TRANS    ERROR      POINT      JITTE      APS      TRANS      PATH
SETTI    & ALA      & TIM      WANDE      COMMA    OVERH     OVERH
<bmp>  <bmp>     <bmp>     <bmp>     <bmp>    <bmp>     <bmp>
-----
Button  Page
  1.    49  P_TX_SDH_SETTINGS_PARAM1
        50  P_TX_SDH_SETTINGS_TRIB_PARAM1
        51  P_TX_SETTINGS_PARAM1
        52  P_TX_SETTINGS_THROUGH_MODE_PARAM1
        53  P_TX_SETTINGS_TRIB_PARAM1
  2.    39  P_TX_ERRORS_ALARMS_PARAM1
  3.    45  P_TX_POINTERS_TIMING_FREQUENCY_PARAM1
        46  P_TX_POINTERS_TIMING_PARAM1
        47  P_TX_POINTERS_TIMING_SEQUENCE_PARAM1
  4.    40  P_TX_JITTER_PARAM1
        **  P_TX_JITTER_PARAM1_NO_OPTION
  5.    38  P_TX_APS_COMMANDS_PARAM1
  6.    54  P_TX_TRANSPORT_OVERHEAD_PARAM1

```

```

7.      41  P_TX_PATH_OVERHEAD_PARAM1
        42  P_TX_PATH_OVERHEAD_V5_PARAM1
        43  P_TX_PATH_OVERHEAD_VC12_PARAM1
        44  P_TX_PATH_OVERHEAD_VC3_PARAM1
=====

----P_TX_SDH_MAJOR_MENU1----
TRANS   64k T   DEFEC      POINT      JITTE      APS        -more
SETTI   SETTI    ANOMA      & TIM     WANDE      COMMA      1 of
<bmp>  <bmp>    <bmp>     <bmp>     <bmp>     <bmp>     <bmp>
-----

Button  Page
  1.    49  P_TX_SDH_SETTINGS_PARAM1
        50  P_TX_SDH_SETTINGS_TRIB_PARAM1
        52  P_TX_SETTINGS_THROUGH_MODE_PARAM1
        53  P_TX_SETTINGS_TRIB_PARAM1
  2.    48  P_TX_SDH_K64_SETTINGS_PARAM1
  3.    39  P_TX_ERRORS_ALARMS_PARAM1
  4.    45  P_TX_POINTERS_TIMING_FREQUENCY_PARAM1
        46  P_TX_POINTERS_TIMING_PARAM1
        47  P_TX_POINTERS_TIMING_SEQUENCE_PARAM1
  5.    40  P_TX_JITTER_PARAM1
        **  P_TX_JITTER_PARAM1_NO_OPTION
  6.    38  P_TX_APS_COMMANDS_PARAM1
=====

----P_TX_SDH_MAJOR_MENU2----
TRANS   SECTI   PATH      TRACE      SIGNA      OVERH      -more
SETTI   OVERH    OVERH     SETTI     LABEL      PRBS       2 of
<bmp>  <bmp>    <bmp>     <bmp>     <bmp>     <bmp>     <bmp>
-----

Button  Page
  1.    49  P_TX_SDH_SETTINGS_PARAM1
        50  P_TX_SDH_SETTINGS_TRIB_PARAM1
        52  P_TX_SETTINGS_THROUGH_MODE_PARAM1
        53  P_TX_SETTINGS_TRIB_PARAM1
  2.    54  P_TX_TRANSPORT_OVERHEAD_PARAM1
  3.    41  P_TX_PATH_OVERHEAD_PARAM1
        42  P_TX_PATH_OVERHEAD_V5_PARAM1
        43  P_TX_PATH_OVERHEAD_VC12_PARAM1
        44  P_TX_PATH_OVERHEAD_VC3_PARAM1
  4.    37  P_TRACE_SETTINGS_PARAM1
  5.    24  P_SIGNAL_LABELS_PARAM1
  6.     1  P_OVERHEAD_PRBS_TEST_PARAM1
=====

----P_UTILITY_MAJOR_MENU----
MISC    PRINT    REMOT     INSTR      SELF      JITTE
SETTI   SETUP    CONTR     CONFI     TEST      CAL
<bmp>  <bmp>    <bmp>     <bmp>     <bmp>     <bmp>
-----

Button  Page
  1.    58  P_UTILITY_MISC_SETTINGS_PARAM1
  2.    59  P_UTILITY_PRINTER_SETUP_PARAM1
  3.    60  P_UTILITY_REMOTE_CONTROL_PARAM1
  4.    57  P_UTILITY_INSTRUMENT_CONFIG_PARAM1
  5.    61  P_UTILITY_SELF_TEST_PARAM1
  6.    55  P_UTILITY_CALIBRATION_PARAM1
        **  P_UTILITY_CALIBRATION_M45_PARAM1
=====

```

1.

```
----P_OVERHEAD_PRBS_TEST_PARAM1----  
Tx Overhead PRBS Test ..... None      2^15-1    Normal  
Rx Overhead PRBS Test ..... None      2^15-1    Normal  
  Pattern Lock ...           Unlocked
```

```
Errors ... <nbr>                BER ... <nbr>  
-----
```

```
Item OVERHEAD_TEST_SELECT_TX_BYTE ("Tx Overhead PRBS Test ...")  
  None  
  E1  
  E2  
  F1  
  -more- 1 of 2  
  F2  
  D1-D3  
  D4-D12  
  -more- 2 of 2
```

```
Item OVERHEAD_TEST_SELECT_TX_PATTERN ("Tx Overhead PRBS Test ...")  
  PRBS 2^23-1  
  PRBS 2^20-1  
  PRBS 2^15-1  
  PRBS 2^11-1  
  PRBS 2^9-1
```

```
Item OVERHEAD_TEST_SELECT_TX_INVERT ("Tx Overhead PRBS Test ...")  
  Normal  
  Inverted
```

```
Item OVERHEAD_TEST_SELECT_RX_BYTE ("Rx Overhead PRBS Test ...")  
  None  
  E1  
  E2  
  F1  
  -more- 1 of 2  
  F2  
  D1-D3  
  D4-D12  
  -more- 2 of 2
```

```
Item OVERHEAD_TEST_SELECT_RX_PATTERN ("Rx Overhead PRBS Test ...")  
  PRBS 2^23-1  
  PRBS 2^20-1  
  PRBS 2^15-1  
  PRBS 2^11-1  
  PRBS 2^9-1
```

```
Item OVERHEAD_TEST_SELECT_RX_INVERT ("Rx Overhead PRBS Test ...")  
  Normal  
  Inverted
```

```
=====
```

2.

----P_PERFORMANCE_ANALYSIS_G826_PARAM1----

Analysis Type G.826

SDH Allocation <nbr>

PDH Allocation <nbr>

Include UAS No Limit .. <nbr>

Current Results		<var>			
	Near End	Far End		Near End	Far End
RS	PASS		140	PASS	PASS
MS	PASS	PASS	34	PASS	PASS
HP	PASS	PASS	8	PASS	PASS
LP	PASS	PASS	2	PASS	PASS

Item PERFORMANCE_ANALYSIS_SELECT_ANALYSIS_G826_TYPE ("Analysis Type ...")
G.826 Performance
M.2101.1 Performance
M.2100 Performance

Item SENSE_DATA_MEASURE_ANALYSIS_G826_SDH_ALLOCATION ("SDH Allocation ...")
Default (100%)
25%
50%
75%
USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_G826_PDH_ALLOCATION ("PDH Allocation ...")
Default (100%)
25%
50%
75%
USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_G826_UAS_ENABLE ("Include UAS ...")
Yes
No

Item SENSE_DATA_MEASURE_ANALYSIS_G826_UAS_LIMIT ("Limit ...")
Default (0)
100
1000
10000
USER DEFINED

=====

3.

----P_PERFORMANCE_ANALYSIS_M2101_PARAM1----

Analysis Type M.2101.1

Test Type BIS

Allocation <nbr>

Include UAS No Limit .. <nbr>

APO Multiplier

 Section ES . <nbr> SES .. <nbr>

 Path ES . <nbr> SES .. <nbr>

Current Results Acceptable
 Near End Far End

RS	ACCEPTABLE	
MS	ACCEPTABLE	ACCEPTABLE
HP	ACCEPTABLE	ACCEPTABLE
LP	ACCEPTABLE	ACCEPTABLE

Item PERFORMANCE_ANALYSIS_SELECT_ANALYSIS_M2101_TYPE ("Analysis Type ...")
 G.826 Performance
 M.2101.1 Performance
 M.2100 Performance

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_TEST_TYPE ("Test Type ...")
 BIS
 PAR
 Mainten- ance
 Custom

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_ALLOCATION_HIF ("Allocation ...")
 Default (16.10%)
 25%
 50%
 75%
 USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_UAS_ENABLE ("Include UAS ...")
 Yes
 No

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_UAS_LIMIT_HIF ("Limit ...")
 Default (0)
 100
 1000
 10000
 USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_SECTION_ES_APOM_HIF ("ES ...")
 Default (0.100) / (0.100) / (0.500) / (0.500)
 USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_SECTION_SES_APOM_HIF ("SES ...")
 Default (0.100) / (0.100) / (0.500) / (0.500)
 USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_PATH_ES_APOM_HIF ("ES ...")
 Default (0.100) / (0.100) / (0.500) / (0.500)
 USER DEFINED

Item SENSE_DATA_MEASURE_ANALYSIS_M2101_PATH_SES_APOM_HIF ("SES ...")
 Default (0.100) / (0.100) / (0.500) / (0.500)
 USER DEFINED

=====

4.

----P_RESULTS_ANALYSIS_SDH_G826_B1BIP----

Section Analysis (B1 BIP)

Near End	B1-BIP	B2-BIP	B3-BIP	TU-BIP
Far End		MS-REI	HP-REI	LP-REI
B1-BIP Analysis			COUNT	RATIO
Errored Blocks		<nbr>		
Errored Seconds		<nbr>		<nbr>
Background Block Errors		<nbr>		<nbr>
Severely Errored Seconds		<nbr>		<nbr>
Consecutive SES Periods		<nbr>		
Unavailable Seconds		<nbr>		<nbr>

Analysis PASS

Item ..._B1BIP

Item ..._B2BIP

Item ..._MSREI

Item ..._B3BIP

Item ..._HPREI

Item ..._TUBIP

Item ..._LPREI

=====

5.

----P_RESULTS_ANALYSIS_SDH_M2101_B1BIP----

Section Analysis (B1 BIP)

	Near End	B1-BIP	B2-BIP	B3-BIP	TU-BIP
	Far End		MS-REI	HP-REI	LP-REI
B1-BIP Analysis	(per G.829)		COUNT		RATIO
Errored Blocks			<nbr>		
Errored Seconds			<nbr>		<nbr>
Background Block Errors			<nbr>		<nbr>
Severely Errored Seconds			<nbr>		<nbr>
Consecutive SES Periods			<nbr>		
Unavailable Seconds			<nbr>		<nbr>

Analysis ACCEPTABLE

Item ..._B1BIP

Item ..._B2BIP

Item ..._MSREI

Item ..._B3BIP

Item ..._HPREI

Item ..._TUBIP

Item ..._LPREI

=====

6.

----P_RESULTS_RECALL_RESULTS_PARAM1----

Memory	Start Time	Durati
Current	00:00:00 01-Jan-00	Running...r>

Disk	Description
------	-------------

<

Item RESULTS0_NAME
Recall Result
Delete File

\012 Memory
\011 Disk

=====

7.

----P_RESULTS_SAVE_RESULTS_PARAM1----

The results of the last test are stored in memory.
For a permanent record, they must be saved to disk.

Name
Description

Save To Disk Select Action

Memory	Start	Time/Date	Duration
Current	00:00:00	01-Jan-00	Running...

Item ..._NAME ("Name ...")
 RESLT_XX
 Clear
 EDIT NAME

Item SENSE_DATA_MEASURE_INFORMATION_DESCRIPTION ("Description ...")
 None
 Clear
 EDIT TEXT

Item ..._SAVE_DISK ("\\011 Save To Disk ...")
 Save Current

=====

8.

```
----P_RX_ANALYSIS_CONFIGURATION_SETTINGS_PARAM1----
FAS Error Threshold ..... <nbr>
Pointer ss-Bit Mismatch Action ..... Loss of Pointer
Trace Mismatch Detection ..... Disabled
HP Unequipped Detection ..... Disabled
LP Unequipped Detection ..... Disabled
HP Signal Label Mismatch Detection.. Disabled
LP Signal Label Mismatch Detection... Disabled
Severely Errored Second
  CRC Error Threshold ..... 300

Rx Error Trigger Output ..... None
```

```
-----
Item ..._FAS_THRESHOLD ("FAS Error Threshold ...")
  1
  2
  3
  4
  -more- 1 of 2
  5
  6
  7
  -more- 2 of 2

Item ..._POINTER_MISMATCH ("Pointer ss-Bit Mismatch Action ...")
  Loss of Pointer
  Ignore

Item ..._TRACE_MISMATCH ("Trace Mismatch Detection ...")
  Disabled
  Enabled

Item SENSE_DATA_POVERHEAD_HPUNEQUIPPED ("HP Unequipped Detection ...")
  Disabled
  Enabled

Item SENSE_DATA_POVERHEAD_LPUNEQUIPPED ("LP Unequipped Detection ...")
  Disabled
  Enabled

Item SENSE_DATA_POVERHEAD_HPPLM ("HP Signal Label Mismatch Detection..")
  Disabled
  Enabled

Item SENSE_DATA_POVERHEAD_LPPLM ("LP Signal Label Mismatch Detection...")
  Disabled
  Enabled

Item ..._SES_THRESHOLD ("CRC Error Threshold ...")
  300 (G.826)
  805 (G.821)
  2444 (G.826)
  45 (G.821)

Item ..._ERROR_TRIGGER ("Rx Error Trigger Output ...")
  None
  Pattern
  B1
  B2
  B3
```

=====

9.

----P_RX_CAS_VOICE_SETTINGS_PARAM1----

CAS Display Mode..... Single
Selected Timeslot..... <nbr>
Speaker..... Off

CAS Bit Values..... TS abcd
 <nb <nbr>

Item ..._CAS_MODE ("CAS Display Mode...")
 Single
 Scan

Item ..._TIMESLOT ("Selected Timeslot...")
 SET TIMESLOT
 DONE

Item ..._VOLUME ("Speaker...")
 Off
 Low
 Medium
 High

=====

10.

----P_RX_CAS_VOICE_SETTINGS_PARAM2----
CAS Display Mode..... Single

TS	abcd	TS	abcd	TS	abcd	TS	abcd
1	<nbr>	9	<nbr>	17	<nbr>	25	<nbr>
2	<nbr>	10	<nbr>	18	<nbr>	26	<nbr>
3	<nbr>	11	<nbr>	19	<nbr>	27	<nbr>
4	<nbr>	12	<nbr>	20	<nbr>	28	<nbr>
5	<nbr>	13	<nbr>	21	<nbr>	29	<nbr>
6	<nbr>	14	<nbr>	22	<nbr>	30	<nbr>
7	<nbr>	15	<nbr>	23	<nbr>	31	<nbr>
8	<nbr>	16	----	24	<nbr>		

Item ..._CAS_MODE ("CAS Display Mode...")
Single
Scan
=====

11.

```
----P_RX_JITTER_WANDER_PARAM1----  
Jitter Mode ..... Peak-Peak  
Jitter Input Source ..... Line  
Jitter Input Clock Rate .... 52MHz (STM-0)  
Jitter Range ..... Normal (6UI)  
Jitter Measurement Filter .. Wideband  
                          (100Hz - 400kHz)  
Fullband Highpass ..... 10.0Hz  
Jitter Hit Threshold ..... <nbr>  
Pointer Hit Threshold ..... <nbr>
```

```
-----  
  
Item RX_JITTER_WANDER_MODE ("Jitter Mode ...")  
  Peak-Peak  
  RMS  
  
Item RX_JITTER_WANDER_SOURCE ("Jitter Input Source ...")  
  Line  
  Clock  
  
Item RX_JITTER_WANDER_CLOCK_RATE ("Jitter Input Clock Rate ...")  
  622MHz  STM-4  
  155MHz  STM-1  
  52MHz   STM-0  
  -more- 1 of 2  
  140MHz  
  34MHz  
  2MHz  
  -more- 2 of 2  
  45MHz  
  34MHz  
  2MHz  
  
Item RX_JITTER_WANDER_RANGE ("Jitter Range ...")  
  Normal  
  Extended  
  
Item RX_JITTER_WANDER_FILTER_TYPE ("Jitter Measurement Filter ...")  
  Wideband  
  Highband (Standard)  
  Highband (National)  
  Fullband  
  500Hz  
  6.50kHz  
  65.0kHz  
  400kHz  
  USER DEFINED  
  1.00kHz  
  25.0kHz  
  250kHz  
  5.00MHz  
  20.0Hz  
  2.40kHz  
  18.0kHz  
  100kHz  
  20Hz  
  400Hz  
  3.0kHz  
  400kHz
```

100Hz
1.00kHz
10.0kHz
800kHz
200Hz
500Hz
10.0kHz
3.50MHz
10Hz
2.30kHz
60.0kHz
400kHz
Highband
Self Test
SYS Int.
SYS Ext.
-more- 1 of 4 / of 3
Protocol Bd
Clock Bd
O/E Mod.
Tributary
-more- 2
CPU
Display
Front Panel
Disk
-more- 3
Jitter
-more- 4

Item RX_JITTER_WANDER_FILTER_SUBBAND_HPASS ("Fullband Highpass ...")

0.1Hz
1.0Hz
10.0Hz

Item RX_JITTER_WANDER_HIT_THRESHOLD ("Jitter Hit Threshold ...")

0.10UI
0.50UI
1.00UI
1.50UI
USER DEFINED

Item RX_JITTER_WANDER_PTR_EVENT_THRESHOLD ("Pointer Hit Threshold ...")

Min 0 ppm/sec
Max 10 ppm/sec
0.023 ppm/sec
USER DEFINED

=====

12.

```
----P_RX_PATH_OVERHEAD_PARAM1----
Overhead View ..... STS Path Overhead
External Drop ..... None
Pause Control ..... Updates Active
C2 Signal Label ..... (Undefined)
J1 HP Trace Format ..... 64-byte

      Path Overhead          Path Trace Message
J1: <nbr>          <bmp>
B3: <nbr>
C2: <nbr>
G1: <nbr>
F2: <nbr>
H4: <nbr>
Z3: <nbr>
Z4: <nbr>
Z5: <nbr>
```

```
-----
Item ..._DISPLAY ("Overhead View ...")
  STS Path Overhead
  V5 Byte
  VC4
  VC3 Overhead
  VC12 Overhead

Item ..._EXTERNAL_DROP ("External Drop ...")
  None
  F2

Item RX_PATH_OVERHEAD_CONTROL ("Pause Control ...")
  Pause
  Continue

Item RX_PATH_OVERHEAD_J1_TRACE_FORMAT ("J1 HP Trace Format ...")
  64-Byte
  16-Byte
=====
```

13.

```
----P_RX_PATH_OVERHEAD_V5_PARAM1----  
Receiving STS-1 with STS-1 : 1 under test  
Overhead View ..... STS Path Overhead  
Pause Control ..... Updates Active
```

```
                <nbr>Overhead  
V5:
```

```
-----  
  
Item RX_PATH_OVERHEAD_SELECT_V5  
  STS Path Overhead  
  V5 Byte  
  VC4  
  VC3 Overhead  
  VC12 Overhead  
  
Item RX_PATH_OVERHEAD_V5_CONTROL ("Pause Control ...")  
  Pause  
  Continue  
=====
```

14.

```
----P_RX_PATH_OVERHEAD_VC12_PARAM1----  
Overhead View ..... STS Path Overhead  
  
Pause Control ..... Updates Active  
V5 Signal Label ..... (Unequipped)  
  
      Path Overhead          Path Trace Message  
V5: <nbr>  
J2: <nbr>          <bmp>  
N2: <nbr>  
K4: <nbr>
```

```
-----  
  
Item RX_PATH_OVERHEAD_SELECT_VC12 ("Overhead View ...")  
  STS Path Overhead  
  V5 Byte  
  VC4  
  VC3 Overhead  
  VC12 Overhead  
  
Item RX_PATH_OVERHEAD_VC12_CONTROL ("Pause Control ...")  
  Pause  
  Continue  
=====
```

15.

```
----P_RX_PATH_OVERHEAD_VC3_PARAM1----  
Overhead View ..... STS Path Overhead  
  
Pause Control ..... Updates Active  
C2 Signal Label ..... <var>  
  
      Path Overhead          Path Trace Message  
J1: <nbr>          <bmp>  
B3: <nbr>  
C2: <nbr>  
G1: <nbr>  
F2: <nbr>  
H4: <nbr>  
Z3: <nbr>  
Z4: <nbr>  
Z5: <nbr>
```

```
-----  
  
Item RX_PATH_OVERHEAD_SELECT_VC3 ("Overhead View ...")  
  STS Path Overhead  
  V5 Byte  
  VC4  
  VC3 Overhead  
  VC12 Overhead  
  
Item RX_PATH_OVERHEAD_VC3_CONTROL ("Pause Control ...")  
  Pause  
  Continue  
=====
```

16.

```
----P_RX_SDH_K64_SETTINGS_PARAM1----
2 Mb/s Framing..... Framed
Configuration..... N x 64k
Number of Timeslots..... <nbr>
Starting Timeslot..... <nbr>
Test Pattern..... <nbr>2^23-1      Normal (ITU)
```

Active Timeslots

```
<< < << < << < < << < << < << < < << << < < <
  1      5      10      15      20      25      30 <
```

```
-----
Item ..._FRAMING ("2 Mb/s Framing...")
  Framed
  Unframed
  Unframed
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
  PCM31
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
  PCM31
  C-Bit
  M13
  Unframed

Item ..._CONFIGURATION ("Configuration...")
  1 x 64k
  N x 64k Contiguous
  M x 64k Noncontiguous
  128K Contiguous
  384K Contiguous

Item ..._WIDTH ("Number of Timeslots...")
  SET VALUE
  Default T.S. 1 Only
  All Timeslots
  Edit Selection
  DONE
  Set
  Clear
  DONE

Item ..._TIMESLOT ("Starting Timeslot...")
  SET VALUE
  DONE

Item ..._TEST_PATTERN ("Test Pattern...")
  PRBS 2^23-1
  PRBS 2^20-1
  PRBS 2^15-1
  PRBS 2^9-1
  -more- 1 of 2
  PRBS 2^23-1
  PRBS 2^20-1
  PRBS 2^15-1
```

```

PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

```

```

Item ..._TEST_PATTERN_POLARITY ("Test Pattern...")
Normal (ITU)
Inverted (Non-ITU)

```

```

Item ..._UBYTE ("Test Pattern...")
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1

```

PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-
=====

17.

```
-----P_RX_SDH_SETTINGS_PARAM1-----
Receive Rate ..... STM-4           Optical
Receive Level ..... Cross Connect
AU Under Test ..... 1
SDH Structure ..... AU-4 Bulk
TU Under Test ..... :1 (Group 1, TUG-2:1   TU-12:1
Payload Structure ..... 140 Mb/suipped)Framed
  Test Pattern ..... <nbr>2^23-1       Normal (ITU)
  34Mb/s Active Channel..... 1
  8Mb/s Active Channel..... 1
  2Mb/s Active Channel..... 1
Payload Drop..... Drop DS1 (AMI)
Tx/Rx Setup..... Independent
```

Item ..._RATE ("Receive Rate ...")

STM-4
STM-1
STM-0
-more- 1 of 2
140 Mb/s
140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s
-more- 2 of 2
45 Mb/s

Item ..._QUALIFIER ("Receive Rate ...")

Optical
Electrical

Item ..._LEVEL ("Receive Level ...")

Cross Connect
Low
High
Monitor (-20 dB)
0 dB
-6 dB
-12 dB

Item ..._AU ("AU Under Test ...")

1
2
3
4
-more- 1 of 3
5
6
7
8
-more- 2 of 3
9
10
11
12
-more- 3 of 3

Item ..._STRUCTURE ("SDH Structure ...")

VC4-4c Bulk
AU-4 Bulk

AU-4 140 Mb/s
TU-3 Async 34 Mb/s / 34 or 45 Mb/s
TU-12 Async 2 Mb/s

Item ..._TU_GROUP ("TU Under Test ...")
VT :1
VT :28
Next
Previous
TU-3:1
TU-3:2
TU-3:3
TUG-3:1
TUG-3:2
TUG-3:3

Item ..._TU2 ("TU Under Test ...")
TUG-2:1
TUG-2:2
TUG-2:3
TUG-2:4
-more- 1 of 2
TUG-2:5
TUG-2:6
TUG-2:7
-more- 2 of 2

Item ..._TU12 ("TU Under Test ...")
TU-12:1
TU-12:2
TU-12:3

Item ..._BULK_PAYLOAD ("Payload Structure ...")
Bulk Fill Test Signal \200\0240.181
Bulk Fill Equipped
Bulk Fill Unequipped

Item ..._TU_PAYLOAD ("Payload Structure ...")
140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s
64 Kb/s
45 Mb/s

Item ..._TU_PAYLOAD_FRAMING ("Payload Structure ...")
Framed
Unframed
Unframed
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
C-Bit
M13
Unframed

Item ..._TEST_PATTERN ("Test Pattern ...")
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2

```

PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
  -more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
  -more-
All Ones
All Zeros
User Word
Live
  -more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
  -more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
  -more-
All Ones
All Zeros
1 in 8
3 in 24
  -more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
  -more- 3 of 3
Live
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
  -more-

```

```

Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
  Normal (ITU)
  Inverted (Non-ITU)

```

```

Item ..._UBYTE ("Test Pattern ...")
  Set to 00000000
  Set to 11111111
  Default 10101010
  EDIT BYTE
  Predefined Patterns
  Edit 24 bits
  Edit 16 bits
  PRBS 2^23-1
  PRBS 2^20-1
  PRBS 2^15-1
  PRBS 2^9-1
  -more- 1 of 2

```

```

PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
  -more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
  -more-
All Ones
All Zeros
User Word
Live
  -more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
  -more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
  -more-
All Ones
All Zeros
1 in 8
3 in 24
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
  -more- 3 of 3
Live
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
  -more-

```

Item ..._M34_CHANNEL ("34Mb/s Active Channel...")

```

1
2
3
4

```

Item ..._M8_CHANNEL ("8Mb/s Active Channel...")

```

1
2
3
4

```

Item ..._M2_CHANNEL ("2Mb/s Active Channel...")

```

1
2
3
4

```

Item ..._PAYLOAD_DROP ("Payload Drop...")

```

On AMI
On B8ZS
Off
Off
On HDB3 Unbal

```

On HDB3 Bal
On AMI Unbal
On AMI Bal
On
On HDB3
On AMI
On B3ZS

Item ..._TX_RX ("Tx/Rx Setup...")

Independ- ent
Coupled
Through Mode

=====

18.

```
----P_RX_SDH_SETTINGS_TRIB_PARAM1----
Receive Rate ..... STM-4           Balanced
Receive Level..... Normal (Cross Connect)

Payload Structure ..... 140 Mb/s     Framed
  Test Pattern ..... <nbr>2^23-1     Normal (ITU)
  34Mb/s Active Channel..... 1
  8Mb/s Active Channel..... 1
  2Mb/s Active Channel..... 1
Payload Drop..... Drop DS1 (AMI)
Tx/Rx Setup..... Independent
```

```
-----
Item ..._RATE ("Receive Rate ...")
  STM-4
  STM-1
  STM-0
  -more- 1 of 2
  140 Mb/s
  140 Mb/s
  34 Mb/s
  8 Mb/s
  2 Mb/s
  -more- 2 of 2
  45 Mb/s

Item ..._QUALIFIER ("Receive Rate ...")
  HDB3
  AMI
  B3ZS
  HDB3 (Unbalanced)
  HDB3 (Balanced)
  AMI (Unbalanced)
  AMI (Balanced)

Item ..._LEVEL ("Receive Level...")
  Normal
  Monitor (-20 dB)
  Monitor (-30 dB)
  Bridge
  Normal
  Monitor (-20 dB)
  Monitor (-30 dB)

Item ..._PAYLOAD ("Payload Structure ...")
  140 Mb/s
  34 Mb/s
  8 Mb/s
  2 Mb/s
  64 Kb/s
  45 Mb/s

Item ..._PAYLOAD_FRAMING ("Payload Structure ...")
  Framed
  Unframed
  Unframed
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
```

PCM31
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
C-Bit
M13
Unframed

Item ..._TEST_PATTERN ("Test Pattern ...")

PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")

Normal (ITU)

Inverted (Non-ITU)

Item ..._UBYTE ("Test Pattern ...")

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

Item ..._M34_CHANNEL ("34Mb/s Active Channel...")

- 1
- 2
- 3
- 4

Item ..._M8_CHANNEL ("8Mb/s Active Channel...")

- 1
- 2

3
4

Item ..._M2_CHANNEL ("2Mb/s Active Channel...")

1
2
3
4

Item ..._PAYLOAD_DROP ("Payload Drop...")

On AMI
On B8ZS
Off
Off
On HDB3 Unbal
On HDB3 Bal
On AMI Unbal
On AMI Bal
On
On HDB3
On AMI
On B3ZS

Item ..._TX_RX ("Tx/Rx Setup...")

Independ- ent
Coupled
Through Mode

=====

19.

```
----P_RX_SETTINGS_PARAM1----
Receive Rate ..... STS-1
Receive Level ..... Cross Connect
Signal Structure ..... STS-1
STS Under Test ..... 1
Mapping ..... Bulk Fill (Equipped)
DS3 Framing ..... DS3 C-bit 1, VT 1)   TU-12:1
DS1 Under Test ..... DS1 Inframed
DS1 Framing ..... DS1 Unframed
Tributary Drop ..... Drop DS1 (AMI)
Test Pattern ..... <nbr>2^23-1
Tx/Rx Settings ..... Independent
```

```
-----
Item ..._RATE ("Receive Rate ...")
  STS-1
  STS-3
  OC-1
  OC-3
  -more- 1 of 3
  STM-1E (Electrical)
  STM-1 (Optical)
  STM-4 (Optical)
  STM-4E (ECL Elec)
  -more- 1 of 2
  1 of 2
  OC-12
  STS-12 (ECL Elec)
  DS1
  DS3
  -more- 2 of 3
  STM-0E
  STM-0
  -more- 2 of 2
  DS3->DS1 Demux
  -more- 3 of 3
  2 Mb/s Balanced
  2 Mb/s Unbalance
  34 Mb/s
  140 Mb/s
```

```
Item ..._LEVEL ("Receive Level ...")
  Cross Connect
  Low
  High
  Monitor (-20 dB)
  0 dB
  -6 dB
  -12 dB
```

```
Item ..._SIGNAL_STRUCTURE ("Signal Structure ...")
  STS-1
  STS-3c
```

```
Item ..._SPE ("STS Under Test ...")
  1
  2
  3
  4
  -more- 1 of 3
```

5
6
7
8
-more- 2 of 3
9
10
11
12
-more- 3 of 3

Item ..._SPE_MAPPING ("Mapping ...")
Bulk Fill No Mapping (Equipped)
Bulk Fill No Mapping (Unequipped)
VT1.5 Async
DS3
DS3->DS1 Demux
TU-12 Async
TU-3 Async
140 Mb/s

Item ..._VT_GROUP ("DS3 Framing ...")
VT :1
VT :28
Next
Previous
TU-3:1
TU-3:2
TU-3:3
TUG-3:1
TUG-3:2
TUG-3:3

Item ..._TU_TU12_CHANNEL ("DS3 Framing ...")
TU-12:1 TUG-2:1 TU-12:1
TU-12:2 TUG-2:1 TU-12:2
TU-12:3 TUG-2:1 TU-12:3
TU-12:4 TUG-2:2 TU-12:1
-more- 1 of 6
TU-12:5 TUG-2:2 TU-12:2
TU-12:6 TUG-2:2 TU-12:3
TU-12:7 TUG-2:3 TU-12:1
TU-12:8 TUG-2:3 TU-12:2
-more- 2 of 6
TU-12:9 TUG-2:3 TU-12:3
TU-12:10 TUG-2:4 TU-12:1
TU-12:11 TUG-2:4 TU-12:2
TU-12:12 TUG-2:4 TU-12:3
-more- 3 of 6
TU-12:13 TUG-2:5 TU-12:1
TU-12:14 TUG-2:5 TU-12:2
TU-12:15 TUG-2:5 TU-12:3
TU-12:16 TUG-2:6 TU-12:1
-more- 4 of 6
TU-12:17 TUG-2:6 TU-12:2
TU-12:18 TUG-2:6 TU-12:3
TU-12:19 TUG-2:7 TU-12:1
TU-12:20 TUG-2:7 TU-12:2
-more- 5 of 6
TU-12:21 TUG-2:7 TU-12:3
-more- 6 of 6

Item ..._VT_FRAMING ("DS1 Under Test ...")
DS1 Unframed
DS1 SF (D4)
DS1 ESF
140 Mb/s

140 Mb/s Framed
2 Mb/s
2 Mb/s PCM30 (CAS)
2 Mb/s PCM31
2 Mb/s PCM30CRC (CAS)
2 Mb/s PCM31CRC
34 Mb/s
34 Mb/s Framed
DS3
DS3 C-bit
DS3 M13

Item ..._DEMAP_FRAMING ("DS3 Framing ...")
DS3 C-bit
DS3 M13

Item ..._DEMUX_CHAN_READOUT ("DS1 Under Test ...")
DS1 :1
DS1 :28
Next
Previous

Item SENSE_DATA_TRIBUTARY_DEMUX_FRAMING ("DS1 Framing ...")
DS1 Unframed
DS1 SF (D4)
DS1 ESF

Item ..._TRIBUTARY_DROP ("Tributary Drop ...")
On AMI
On B8ZS
Off
Off
On HDB3 Unbal
On HDB3 Bal
On AMI Unbal
On AMI Bal
On
On HDB3
On AMI
On B3ZS

Item ..._TEST_PATTERN ("Test Pattern ...")
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3

```

PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

```

Item ..._UBYTE ("Test Pattern ...")

```

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle

```

-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

Item ..._TX_RX ("Tx/Rx Settings ...")
Independ- ent
Coupled
Through Mode

=====

20.

```
----P_RX_SETTINGS_TRIB_PARAM1----
Receive Rate ..... STS-1
Receive Level ..... Normal (Cross Connect)

DS3 Framing ..... DS3 C-bitmed
DS1 Under Test ..... DS1 1
DS1 Framing ..... DS1 Unframed

Test Pattern ..... <nbr>2^23-1
Tx/Rx Settings ..... Independent
```

Item RX_SETTINGS_SELECT_TRIB_RATE ("Receive Rate ...")

- STS-1
- STS-3
- OC-1
- OC-3
- more- 1 of 3
- STM-1E (Electrical)
- STM-1 (Optical)
- STM-4 (Optical)
- STM-4E (ECL Elec)
- more- 1 of 2
- 1 of 2
- OC-12
- STS-12 (ECL Elec)
- DS1
- DS3
- more- 2 of 3
- STM-0E
- STM-0
- more- 2 of 2
- DS3->DS1 Demux
- more- 3 of 3
- 2 Mb/s Balanced
- 2 Mb/s Unbalance
- 34 Mb/s
- 140 Mb/s

Item RX_SETTINGS_SELECT_TRIBUTARY_LEVEL ("Receive Level ...")

- Normal
- Monitor
- Bridge
- Normal
- Monitor

Item RX_SETTINGS_SELECT_TRIBUTARY_FRAMING ("Framing ...")

- DS1 Unframed
- DS1 SF (D4)
- DS1 ESF
- 140 Mb/s
- 140 Mb/s Framed
- 2 Mb/s
- 2 Mb/s PCM30 (CAS)
- 2 Mb/s PCM31
- 2 Mb/s PCM30CRC (CAS)
- 2 Mb/s PCM31CRC
- 34 Mb/s

34 Mb/s Framed
DS3
DS3 C-bit
DS3 M13

Item RX_SETTINGS_SELECT_TRIBUTARY_DEMAP_FRAMING ("Framing ...")
DS3 C-bit
DS3 M13

Item RX_SETTINGS_SELECT_TRIBUTARY_DEMUX_CHAN_READOUT ("DS1 Under Test ...")
DS1 :1
DS1 :28
Next
Previous

Item RX_SETTINGS_SELECT_TRIBUTARY_DEMUX_FRAMING ("DS1 Framing ...")
DS1 Unframed
DS1 SF (D4)
DS1 ESF

Item RX_SETTINGS_SELECT_TRIB_TEST_PATTERN ("Test Pattern ...")
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live

-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

Item RX_SETTINGS_SELECT_TRIB_UBYTE ("Test Pattern ...")

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
Live
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more- 3 of 3
Live
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
Live
-more-

Item RX_SETTINGS_SELECT_TRIB_TX_RX ("Tx/Rx Settings ...")

Independ- ent

Coupled
Through Mode

=====

21.

----P_RX_SET_BYTE_TRACE_PARAM1----

=====

22.

----P_RX_TRANSPORT_OVERHEAD_PARAM1----

Showing Overhead for STS-1 :1
External Drop None
Pause Control Updates Active
J0 RS Trace Tek CTS 850
S1 Sync. Status Message

Column ?	Column ?	Column ?
A1: <nbr>	A2: <nbr>	J0: <nbr>
B1: <nbr>	E1: <nbr>	F1: <nbr>
D1: <nbr>	D2: <nbr>	D3: <nbr>
H1: <nbr>	H2: <nbr>	H3: <nbr>
B2: <nbr>	K1: <nbr>	K2: <nbr>
D4: <nbr>	D5: <nbr>	D6: <nbr>
D7: <nbr>	D8: <nbr>	D9: <nbr>
D10: <nbr>	D11: <nbr>	D12: <nbr>
S1: <nbr>	Z2: <nbr>	E2: <nbr>

Item ..._COLUMNS_HIF ("Showing Overhead for ...")

STS-1 :1
STS-1 :2
STS-1 :3
STS-1 :4
-more- 1 of 3
AU-4 :1 cols 1,4,7
AU-4 :1 cols 2,5,8
AU-4 :1 cols 3,6,9
AU-4 :2 cols 1,4,7
STS-3c :1
STS-3c :1
STS-3c :1
STS-3c :2
STS-1 :5
STS-1 :6
STS-1 :7
STS-1 :8
-more- 2 of 3
AU-4 :2 cols 2,5,8
AU-4 :2 cols 3,6,9
AU-4 :3 cols 1,4,7
AU-4 :3 cols 2,5,8
STS-3c :2
STS-3c :2
STS-3c :3
STS-3c :3
STS-1 :9
STS-1 :10
STS-1 :11
STS-1 :12
-more- 3 of 3
AU-4 :3 cols 3,6,9
AU-4 :4 cols 1,4,7
AU-4 :4 cols 2,5,8
AU-4 :4 cols 3,6,9
STS-3c :3
STS-3c :4
STS-3c :4
STS-3c :4

Item ..._EXTERNAL_DROP ("External Drop ...")

None
D1-D3
D4-D12
F1

-more- 1 of 2
E1
E2
E1 to Handset
E2 to Handset
-more- 2 of 2

Item RX_TRANSPORT_OVERHEAD_CONTROL ("Pause Control ...")
Pause
Continue

Item RX_TRANSPORT_OVERHEAD_TRACE_J0 ("J0 RS Trace ...")
Enable Trace
Disable Trace

=====

23.

----P_RX_VIEW_BYTE_TRACE_PARAM1----

=====

24.

----P_SIGNAL_LABELS_PARAM1----

C2 HP-Signal Label		Measurement:	Disabled
Expected	<nbr>	<var>	
Rx	<nbr>	(Undefined)	
Tx	<nbr>	<var>	
C2 LP-Signal Label		Measurement:	Disabled
Expected	<nbr>	<var>	
Rx.....	<nbr>	<var>	
Tx.....	<nbr>	<var>	
V5 LP-Signal Label		Measurement:	Disabled
Expected	000	(Unequipped)	
Rx.....	<nbr>	(Unequipped)	
Tx.....	000	<var>	

Item TX_SIGNAL_LABELS_C2_HP_EXPECTED_VALUE ("Expected ...")

00000000 (Unequipped)
00000001 (Equipped)
00000010 (TUG)
00000011 (TU-n Locked)
-more- 1 of 4
00000100 Async 34 Mb/s / 34 or 45 Mb/s
00010010 Async 140 Mb/s
00010011 (ATM)
00010100 MAN(DQDB)
-more- 2 of 4
00010101 (FDDI)
11111110 0.181 Test Signal
11111111 (VC-AIS)
11001111 (PPP)
-more- 3 of 4
Default 11111110 / 00000010 / 00010010
EDIT BYTE
-more- 4 of 4

Item TX_SIGNAL_LABELS_C2_LP_EXPECTED_VALUE ("Expected ...")

00000000 (Unequipped)
00000001 (Equipped)
00000010 (TUG)
00000011 (TU-n Locked)
-more- 1 of 4
00000100 Async 34 Mb/s / 34 or 45 Mb/s
00010010 Async 140 Mb/s
00010011 (ATM)
00010100 MAN(DQDB)
-more- 2 of 4
00010101 (FDDI)
11111110 0.181 Test Signal
11111111 (VC-AIS)
11001111 (PPP)
-more- 3 of 4
Default <number>
EDIT BYTE
-more- 4 of 4

Item TX_SIGNAL_LABELS_V5_LP_EXPECTED_VALUE ("Expected ...")

Unequip (000)
Equipped (001)
Async (010)
Bit-Sync (011)
-more- 1 of 2

Byte-Sync (100)
Reserved (101)
T.S.0.181 (110)
VC-AIS (111)
-more- 2 of 2

=====

25.

```
----P_TEST_JITTER_OUTPUT_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Test Duration ..... 1 min 0 sec
```

No Data

Filter	Measured	Max Allowed
Wideband	Jitter	(G.823)
Highband		

Press START/STOP to Begin Jitter Transfer Test

```
-----  
Item ..._TYPE ("Test Type ...")  
  Output Jitter  
  Jitter Tolerance  
  Jitter Transfer  
  Pointer Jitter  
  Jitter Spectrum  
  
Item ..._CONTROL ("Test Control ...")  
  Edit Setup  
  View Graph  
  View Data  
  Save Results  
  Recall Results  
  
Item ..._DURATION ("Test Duration ...")  
  15 sec  
  30 sec  
  1 min  
  15 min  
  USER DEFINED  
=====
```

26.

```
----P_TEST_JITTER_POINTER_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Sequence Type (G.783) ..... a) Single Alternating
```

No Data

Filter	Measured	Max Allowed
Wideband	Jitter	(G.783)
Highband		

(Go to Transmit POINTERS & TIMING to setup sequence)
Press START/STOP to Begin Jitter Transfer Test

```
-----  
Item ..._TYPE ("Test Type ...")  
  Output Jitter  
  Jitter Tolerance  
  Jitter Transfer  
  Pointer Jitter  
  Jitter Spectrum  
  
Item ..._CONTROL ("Test Control ...")  
  Edit Setup  
  View Graph  
  View Data  
  Save Results  
  Recall Results  
  
Item SENSE_DATA_TEST_JITTER_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783) ...")  
  Single Alternating  
  Regular + Double  
  Regular + Missing  
  Double Alternating  
  -more- 1 of 4  
  Single  
  Burst  
  Periodic 87-3  
  Periodic 87-3 With Add  
  -more- 2 of 4  
  Periodic 87-3 With Cancel  
  Periodic Continuous  
  Periodic Continuous With Add  
  Periodic Continuous With Cancel  
  -more- 3 of 4  
  Phase Transient  
  USER DEFINED  
  -more- 4 of 4  
=====
```

27.

```
----P_TEST_JITTER_RECALL_RESULTS----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Choose Test ..... Select Action
```

Disk	Description
------	-------------

<

```
-----  
Item TEST_SETUP_JITTER_RECALL_RESULTS_TYPE ("Test Type ...")  
  Output Jitter  
  Jitter Tolerance  
  Jitter Transfer  
  Pointer Jitter  
  Jitter Spectrum
```

```
Item TEST_SETUP_JITTER_RECALL_RESULTS ("Test Control ...")  
  Edit Setup  
  View Graph  
  View Data  
  Save Results  
  Recall Results
```

```
Item TEST_JITTER_CHOOSE_TEST ("Choose Test ...")  
  Recall File
```

```
Item JITTER_RESULTS0_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

```
Item JITTER_RESULTS1_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

```
Item JITTER_RESULTS2_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

```
Item JITTER_RESULTS3_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

```
Item JITTER_RESULTS4_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

```
Item JITTER_RESULTS5_FILENAME  
  Recall Results  
  Delete File  
  Exit
```

=====

28.

```
----P_TEST_JITTER_SAVE_RESULTS----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
File Name .....  
Description .....  
Disk Operation ..... Select Action
```

```
-----  
  
Item TEST_SETUP_JITTER_SAVE_RESULTS_TYPE ("Test Type ...")  
    Output Jitter  
    Jitter Tolerance  
    Jitter Transfer  
    Pointer Jitter  
    Jitter Spectrum  
  
Item TEST_SETUP_JITTER_SAVE_RESULTS ("Test Control ...")  
    Edit Setup  
    View Graph  
    View Data  
    Save Results  
    Recall Results  
  
Item TEST_JITTER_SAVE_RESULTS_NAME ("File Name ...")  
    RESULT_XX  
    Clear  
    EDIT NAME  
  
Item TEST_JITTER_SAVE_RESULTS_DESCRIPTION ("Description ...")  
    None  
    EDIT TEXT  
  
Item TEST_JITTER_SAVE_RESULTS_DISK ("Disk Operation ...")  
    Save File  
=====
```

29.

```
----P_TEST_JITTER_SPECTRUM_PARAM1----  
Test Type ..... Output Jitter  
Test Control ..... Edit Setup  
Frequency Range ..... Spectral 0.1Hz - 1kHz
```

Press START/STOP to Begin Jitter Transfer Test

```
-----  
  
Item ..._TYPE ("Test Type ...")  
  Output Jitter  
  Jitter Tolerance  
  Jitter Transfer  
  Pointer Jitter  
  Jitter Spectrum  
  
Item ..._CONTROL ("Test Control ...")  
  Edit Setup  
  View Graph  
  View Data  
  Save Results  
  Recall Results  
  
Item SENSE_DATA_TEST_JITTER_SPECTRUM_RANGE ("Frequency Range ...")  
  0.1 Hz - 1.0 kHz  
  1.0 kHz - 5.0 MHz  
=====
```

30.

```
----P_TEST_JITTER_TOLERANCE_PARAM1----
Test Type ..... Output Jitter
Test Control ..... Edit Setup
Mask Type ..... G.825
Start Frequency ..... <nbr>
End Frequency ..... <nbr>
Number Freq Samples ..... <nbr>
Tolerance Criteria ..... Onset Of Errors Method
Record Error Threshold ..... SELECT ACTION
  Recommended BER (0.171)      ><nbr>
  Current BER (Threshold)     <nbr>          In Progress...
```

Press START/STOP to Begin Jitter Transfer Test

```
-----
Item SENSE_DATA_TEST_JITTER_TYPE ("Test Type ...")
  Output Jitter
  Jitter Tolerance
  Jitter Transfer
  Pointer Jitter
  Jitter Spectrum

Item SENSE_DATA_TEST_JITTER_CONTROL ("Test Control ...")
  Edit Setup
  View Graph
  View Data
  Save Results
  Recall Results

Item SENSE_DATA_TEST_JITTER_TOLERANCE_MASK ("Mask Type ...")
  G.825
  G.958 (Type A)
  G.958 (Type B)
  G.823 (Standard)
  G.823 (National)

Item SENSE_DATA_TEST_JITTER_TOLERANCE_FREQUENCY_START ("Start Frequency ...")
  <number>
  <number>
  <number>
  <number>
  -more- 1 of 3 / 1 of 2
  <number>
  <number>
  <number>
  <number>
  -more- 2 of 3 / 2 of 2
  <number>
  <number>
  -more- 3 of 3

Item SENSE_DATA_TEST_JITTER_TOLERANCE_FREQUENCY_END ("End Frequency ...")
  <number>
  <number>
  <number>
  <number>
  -more- 1 of 3 / 1 of 2
  <number>
  <number>
  <number>
  <number>
```

-more- 2 of 3 / 2 of 2

<number>

<number>

-more- 3 of 3

Item SENSE_DATA_TEST_JITTER_TOLERANCE_SAMPLES ("Number Freq Samples ...")

<number>

<number>

<number>

<number>

<number>

Item SENSE_DATA_TEST_JITTER_TOLERANCE_METHOD ("Tolerance Criteria ...")

Onset Of Errors

BER Penalty

Item SENSE_DATA_TEST_JITTER_TOLERANCE_MEASURE ("Record Error Threshold ...")

Measure BER

Record BER

=====

31.

----P_TEST_JITTER_TRANSFER_PARAM1----

Test Type Output Jitter
Test Control Edit Setup
Mask Type GR-253
Start Frequency <nbr>
End Frequency <nbr>
Number Freq Samples <nbr>
Action Perform Jitter Transfer

The calibration is performed to establish a 0dB amplitude reference trace of the CTS (using an internal loopback).

Calibration Status: Unsupported Settings

 Press START/STOP to Begin Jitter Transfer Test

Item ..._TYPE ("Test Type ...")

Output Jitter
Jitter Tolerance
Jitter Transfer
Pointer Jitter
Jitter Spectrum

Item ..._CONTROL ("Test Control ...")

Edit Setup
View Graph
View Data
Save Results
Recall Results

Item SENSE_DATA_TEST_JITTER_TRANSFER_MASK ("Mask Type ...")

G.958 (Type A)
G.958 (Type B)

Item SENSE_DATA_TEST_JITTER_TRANSFER_FREQUENCY_START ("Start Frequency ...")

<number>
<number>
<number>
<number>
-more- 1 of 3 / 1 of 2
<number>
<number>
<number>
<number>
-more- 2 of 3 / 2 of 2
<number>
<number>
-more- 3 of 3

Item SENSE_DATA_TEST_JITTER_TRANSFER_FREQUENCY_END ("End Frequency ...")

<number>
<number>
<number>
<number>
-more- 1 of 3 / 1 of 2
<number>
<number>
<number>
<number>
-more- 2 of 3 / 2 of 2
<number>
<number>

-more- 3 of 3

Item SENSE_DATA_TEST_JITTER_TRANSFER_SAMPLES ("Number Freq Samples ...")
<number>
<number>
<number>
<number>
<number>

Item SENSE_DATA_TEST_JITTER_TRANSFER_STATE ("Action ...")
Jitter Transfer
Calibrate

=====

32.

----P_TEST_SETUP_RECALL_INSTRUMENT_SETUPS_PARAM1----

Memory	Description
0. DEFAULT	FACTORY SETTINGS
1. EMPTY	
2. EMPTY	
3. EMPTY	
4. EMPTY	
5. EMPTY	

Disk	Description
------	-------------

<

Item INSTRUMENT_SETUP0_NAME ("0.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

Item INSTRUMENT_SETUP1_NAME ("1.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

Item INSTRUMENT_SETUP2_NAME ("2.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

Item INSTRUMENT_SETUP3_NAME ("3.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

Item INSTRUMENT_SETUP4_NAME ("4.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

Item INSTRUMENT_SETUP5_NAME ("5.")
 Recall Setup
 Delete File
 \012 Memory
 \011 Disk

=====

33.

----P_TEST_SETUP_RECALL_PASS_FAIL_TESTS_PARAM1----
Disk Description

<

Item PASS_FAIL_TEST0_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST1_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST2_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST3_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST4_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST5_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST6_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST7_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST8_NAME
 Recall & Run Test
 Delete File
 \011 Disk

Item PASS_FAIL_TEST9_NAME

Recall & Run Test
Delete File
\011 Disk

Item PASS_FAIL_TEST10_NAME
Recall & Run Test
Delete File
\011 Disk

Item PASS_FAIL_TEST11_NAME
Recall & Run Test
Delete File
\011 Disk

Item PASS_FAIL_TEST12_NAME
Recall & Run Test
Delete File
\011 Disk

=====

34.

----P_TEST_SETUP_SAVE_INSTRUMENT_SETUPS_PARAM1----
Set up the instrument as required. Then fill out the
parameters below and save to disk or memory.

Name
Description

Save to Memory Select Action
Save to Disk Select Action

Item ..._NAME ("Name ...")
SETUP_XX
Clear
EDIT NAME

Item SYSTEM_DESCRIPTION ("Description ...")
None
Clear
EDIT TEXT

Item ..._SAVE_MEM ("\012 Save to Memory ...")
Memory 1
Memory 2
Memory 3
Memory 4
Memory 5

Item ..._SAVE_DISK ("\011 Save to Disk ...")
Save File

=====

35.

----P_TEST_SETUP_SAVE_PASS_FAIL_TESTS_PARAM1----
Set up the instrument as required. Then fill out the parameters below and save your test to disk.

Name
Description
Operator Start Prompt
Test Duration
 <var> <var> <nbr>
 <var> <var> <nbr>
Fail If
 <var> <var> <nbr>
 <var> <var> <nbr>
Operator End Prompt
On Test Completion Do Nothing
Save to Disk Select Action

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_NAME ("Name ...")
TEST_XX
Clear
EDIT NAME

Item SENSE_DATA_MEASURE_STESTS_DESCRIPTION ("Description ...")
None
Clear
EDIT TEXT

Item SENSE_DATA_MEASURE_STESTS_START_PROMPT ("Operator Start Prompt ...")
Default
Clear
Preview
EDIT TEXT

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_DURATION ("Test Duration ...")
5 min
15 min
1 hour
Continuous
USER DEFINED

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS1
Alarm
Failure
Error Ratio
Error Count
-more- 1 of 2
Errored Seconds
Pointer
Jitter
None
-more- 2 of 2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE1

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD1

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS2
Alarm
Failure
Error Ratio
Error Count
-more- 1 of 2
Errored Seconds

Pointer
Jitter
None
-more- 2 of 2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS3

Alarm
Failure
Error Ratio
Error Count
-more- 1 of 2
Errored Seconds
Pointer
Jitter
None
-more- 2 of 2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE3

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD3

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_CLASS4

Alarm
Failure
Error Ratio
Error Count
-more- 1 of 2
Errored Seconds
Pointer
Jitter
None
-more- 2 of 2

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_TYPE4

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_EVAL_THRESHOLD4

Item SENSE_DATA_MEASURE_STESTS_END_PROMPT ("Operator End Prompt ...")

Default
Clear
Preview
EDIT TEXT

Item SENSE_DATA_MEASURE_STESTS_ON_COMPLETE ("On Test Completion ...")

Do Nothing
Print Summary
Save to Disk

Item TEST_SETUP_SAVE_PASS_FAIL_TESTS_DISK_ACTION ("Save to Disk ...")

Save File

=====

36.

----P_TEST_SETUP_TEST_CONTROL_PARAM1----

Test Duration

History Resolution Normal (1 min samples)

At 1 minute resolution the maximum history length
is at least 5 days. Upon reaching the 5 day limit
new data will begin overwriting the old data.

Item UTILITY_TEST_DURATION ("Test Duration ...")

5 min

15 min

1 hour

Continuous

USER DEFINED

Item ..._HIST_RES ("History Resolution ...")

Normal (1 min)

Low (15 min)

High (1 sec)

=====

37.

----P_TRACE_SETTINGS_PARAM1----

Trace Select ... RS Trace (J0) Measurement: Disabled

Expected

Rx

Tx

Item OVERHEAD_TEST_SELECT_TRACE ("Trace Select ...")

RS Trace (J0)

HP Trace (J1)

LP Trace (J1) / (J2)

Item OVERHEAD_TEST_EXPECTED_TRACE_1

Clear Trace

Copy Transmit

Copy Receive

EDIT TRACE

=====

38.

```
----P_TX_APS_COMMANDS_PARAM1----
APS Mode ..... Span Network
                USER SETUP  TRANSMIT  RECEIVE
K1 Full Byte ..... <nbr>      <nbr>      <nbr>
Bits 1-4: Switch Request ... ?          ?          ?
Bits 5-8: Channel Requesting ?          ?          ?
K2 Full Byte ..... <nbr>      <nbr>      <nbr>
Bits 1-4: Bridged Channel .. ?          ?          ?
Bit 5: Architecture ..... ?          ?          ?
Bits 6-8: Status ..... ?          ?          ?

Transmit Setup ..... Select Action
```

```
-----
Item SOURCE_DATA_APS_MODE ("APS Mode ...")
  Span
  Ring

Item TX_APS_K1_BYTE ("K1 Full Byte ...")
  Default 00000000
  Set to 11111111
  Set to <number>
  EDIT BYTE

Item TX_APS_K1_BITS_1_4 ("Bits 1-4: Switch Request ...")
  NR No Request
  DNR / RR-R Do Not / Reverse Revert / Request Ring
  RR / RR-S Reverse Request / Request Span
  Not Used / EXER-R Exercise Ring
  -more- 1 of 4
  EXER / EXER-S Exercise Span
  Not Used / WTR Wait To Restore
  WTR / MS-R Wait To / Manual Restore / Switch Ring
  Not Used / MS-S Manual Switch Span
  -more- 2 of 4
  MS / SD-R Manual / Signal Switch / Degrade Ring
  Not Used / SD-S Signal Degrade Span
  SD-LP / SD-P Signal Degrade Low / Degrade
  SD-HP / SF-R Signal Degrade High / Fail Ring
  -more- 3 of 4
  SF-LP / SF-S Signal Fail Low / Fail Span
  SF-HP / FS-R Signal / Forced Fail High / Switch Ring
  FS / FS-S Forced Switch / Switch Span
  LP / LP-S Lockout of Protection
  -more- 4 of 4

Item TX_APS_K1_BITS_5_8 ("Bits 5-8: Channel Requesting ...")
  0 (0000)
  1 (0001)
  2 (0010)
  3 (0011)
  -more- 1 of 4
  4 (0100)
  5 (0101)
  6 (0110)
  7 (0111)
  -more- 2 of 4
  8 (1000)
  9 (1001)
  10 (1010)
```

```

11 (1011)
  -more- 3 of 4
12 (1100)
13 (1101)
14 (1110)
15 (1111)
  -more- 4 of 4

Item TX_APS_K2_BYTE ("K2 Full Byte ...")
  Default 00000000
  Set to 11111111
  Set to <number>
  EDIT BYTE

Item TX_APS_K2_BITS_1_4 ("Bits 1-4: Bridged Channel ...")
  0 (0000)
  1 (0001)
  2 (0010)
  3 (0011)
  -more- 1 of 4
  4 (0100)
  5 (0101)
  6 (0110)
  7 (0111)
  -more- 2 of 4
  8 (1000)
  9 (1001)
  10 (1010)
  11 (1011)
  -more- 3 of 4
  12 (1100)
  13 (1101)
  14 (1110)
  15 (1111)
  -more- 4 of 4

Item TX_APS_K2_BIT_5 ("Bit 5: Architecture ...")
  1+1 / SHORT
  1:N / LONG

Item TX_APS_K2_BITS_6_8 ("Bits 6-8: Status ...")
  IDLE
  BR Bridged
  BR & SW Bridged & Switched
  Not Used / EXT TR Extra Traffic on Prot. Chan.
  -more- 1 of 2
  Not Used
  Not Used
  MS-RDI
  MS-AIS
  -more- 2 of 2

Item TX_APS_TRANSMIT_SETUP ("Transmit Setup ...")
  Transmit User Setup
  Transmit Default
  Transmit Illegal
=====

```

39.

```
----P_TX_ERRORS_ALARMS_PARAM1----
Error Type set to ..... Section B1 BIP
Frame Bit Error Burst ..... <nbr> Error in <nbr> Frames
PDH Anomaly Layer ..... 140 Mb/s <var>

Transmit Alarm set to ..... None
PDH Alarm Layer ..... 140 Mb/s <var>

Transmit Failure set to .... None
PDH Failure Layer ..... 140 Mb/s <var>
Press INSERT ERROR to insert a single error
into the transmitted signal.
```

Item ..._TYPE ("Error Type set to ...")

```
None
Section B1
Line B2
Path B3
-more- 1 of 3
RS B1 BIP
MS B2 BIP
Path B3 BIP
1 of 3 / 1 of 2 / 1 of 4
Pattern Bit
Frame Bit
Frame Bit Burst
-more- 1 of 2
Pattern Bit
Frame Bit
CRC (ESF)
1 of 2
HP-REI
VT BIP
VT FEBE
Pattern Bit
-more- 2 of 3
Pattern Bit
C-Bit Parity
P-Bit Parity
2 of 3 / 2 of 2 / 2 of 4
PDH CRC
Code
C-Bit Parity
P-Bit Parity
REI
-more- 2 of 2
Bit Slip
CRC (2Mb)
P-Bit
C-Bit
-more-
Frame Bit
CRC (ESF)
P-Bit
C-Bit
3 of 3
TU Path BIP
LP-REI
PDH FAS
```

PDH FAS Burst
-more- 3 of 3 / 3 of 4
PDH REI
-more- 4 of 4

Item ..._RATE ("Error Rate set to ...")

None
1e-3
1e-4
1e-5
-more- 1 of 2
1e-6
1e-7
1e-8
USER DEFINED
-more- 2 of 2

Item ..._FAS_BURST_COUNT ("Error Rate set to ...")
SET VALUE

Item ..._FAS_BURST_SIZE ("Error in")
SET VALUE

Item ..._ERROR_LAYER ("PDH Anomaly Layer ...")

140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s

Item ..._ALARM ("Transmit Alarm set to ...")

None
Line AIS
Line FERF
Path AIS
-more- 1 of 3
MS-AIS
MS-RDI
AU-AIS
1 of 3 / of 2
PDH RDI
PDH AIS
PDH AIS
Idle
DSn Yellow
DSn AIS
DS3 Idle
Path FERF
VT AIS
VT FERF
-more- 2 of 3
HP-RDI
TU-AIS
LP-RDI
LP-RFI
2
DSn Yellow
DSn AIS
DS3 Idle
-more- 3 of 3
PDH AIS
PDH RDI
Idle

Item ..._ALARM_LAYER ("PDH Alarm Layer ...")

140 Mb/s
34 Mb/s
8 Mb/s

2 Mb/s

Item ..._FAILURE ("Transmit Failure set to ...")

None
LOS
LOF
STS LOP
-more- 1 of 2
AU-LOP
-more- 1 of 2
LOS
LOF
VT LOP
VT LOM
-more- 2 of 2
TU-LOP
TU-LOM
PDH LOF

Item ..._FAILURE_LAYER ("PDH Failure Layer ...")

140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s

=====

40.

----P_TX_JITTER_PARAM1----

Jitter/Wander Generation ... Off
Jitter Output Line
Jitter Clock Rate 52MHz (STM-0)
Jitter Clock Offset <nbr>
Jitter Frequency <nbr>
Jitter Amplitude <nbr>

For Jitter Generation Set Jitter Frequency > 10 Hz
For Wander Generation Set Jitter Frequency < 10 Hz

Item TX_JITTER_MODE ("Jitter/Wander Generation ...")
Off
On

Item TX_JITTER_SOURCE ("Jitter Output ...")
Line
Clock 0.8V
2MHz G.703

Item TX_JITTER_CLOCK_RATE ("Jitter Clock Rate ...")
622MHz STM-4
155MHz STM-1
52MHz STM-0
-more- 1 of 2
140MHz
34MHz
2MHz
-more- 2 of 2
45MHz
34MHz
2MHz

Item TX_JITTER_CLOCK_OFFSET ("Jitter Clock Offset ...")
+100ppm
+4.6ppm
-4.6ppm
Default 0ppm
USER DEFINED

Item TX_JITTER_FREQUENCY ("Jitter Frequency ...")
500Hz
6.50kHz
65.0kHz
1.30MHz
USER DEFINED
500Hz
6.50kHz
65.0kHz
400kHz
1.00kHz
25.0kHz
250kHz
5.00MHz
20.0Hz
2.40kHz
18.0kHz

100kHz
20Hz
400Hz
3.0kHz
400kHz
100Hz
1.00kHz
10.0kHz
800kHz
200Hz
500Hz
10.0kHz
3.50MHz
10Hz
2.30kHz
60.0kHz
400kHz
Wideband
Highband
Fullband
Self Test
SYS Int.
SYS Ext.
-more- 1 of 4 / of 3
Protocol Bd
Clock Bd
O/E Mod.
Tributary
-more- 2
CPU
Display
Front Panel
Disk
-more- 3
Jitter
-more- 4

Item TX_JITTER_AMPLITUDE ("Jitter Amplitude ...")

1.50 UI (Max)
0.15 UI (Max/2)
0.0 UI
USER DEFINED

=====

41.

----P_TX_PATH_OVERHEAD_PARAM1----

Transmitting <var> STS-1 : 1 under test
Overhead View STS Path Overhead
External Add None
C2 Signal Label <var>
H4 Multiframe Sequence 4 Bytes

	Path Overhead	Path Trace Message
J1:	<nbr>	<bmp>
B3:	<nbr>	
C2:	<nbr>	
G1:		
F2:	<nbr>	
H4:	<nbr>	
Z3:	<nbr>	
Z4:	<nbr>	
Z5:	<nbr>	

Item ..._DISPLAY ("Overhead View ...")

STS Path Overhead
V5 Byte
VC4
VC3 Overhead
VC12 Overhead

Item ..._EXTERNAL_ADD ("External Add ...")

None
F2

Item TX_PATH_C2_OVERHEAD_LABEL ("C2 Signal Label ...")

Unequip- ped
Equipped Non-specific
TUG
TU-n Locked
-more- 1 of 3
Async 34 Mb/s / 34 or 45 Mb/s
140 Mb/s Asynchronous
ATM
MAN (DQDB)
-more- 2 of 3
FDDI
O.181 Test Signal
VC-AIS
PPP
-more- 3 of 3

Item TX_PATH_OVERHEAD_H4_SEQUENCE ("H4 Multiframe Sequence ...")

4 Bytes
48 Bytes

Item SOURCE_DATA_POVERHEAD_BYTENAMES_J1

Reset Overhead
Null Trace
Default Trace
User Trace
EDIT TRACE
Null Trace
Default Trace
EDIT TRACE
64-Byte Format
16-Byte Format
EDIT TRACE
-more- 1 of 2
Null Trace

Default Trace
-more- 2 of 2

Item SOURCE_DATA_POVERHEAD_BYTENAME_B3

Item SOURCE_DATA_POVERHEAD_BYTENAME_C2
Reset Overhead
00000000 (Unequipped)
00000001 (Equipped)
Default <number>
EDIT BYTE

Item SOURCE_DATA_POVERHEAD_BYTENAME_G1 (" \014\014\014\014")
000
001
010
011
-more- 1 of 2
100
101
110
111
-more- 2 of 2

Item SOURCE_DATA_POVERHEAD_BYTENAME_F2
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item SOURCE_DATA_POVERHEAD_BYTENAME_H4
Default <number>
EDIT BYTE

Item SOURCE_DATA_POVERHEAD_BYTENAME_Z3
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item SOURCE_DATA_POVERHEAD_BYTENAME_Z4
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item SOURCE_DATA_POVERHEAD_BYTENAME_Z5
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

=====

42.

----P_TX_PATH_OVERHEAD_V5_PARAM1----

Transmitting <var> STS-1 : 1 under test
Overhead View STS Path Overhead

V5:

Item TX_PATH_OVERHEAD_SELECT_V5
STS Path Overhead
V5 Byte
VC4
VC3 Overhead
VC12 Overhead

Item TX_PATH_OVERHEAD_TRIB_VT_SIG_LABEL ("014\014\014\014")
Unequip (000)
Equipped (001)
Async (010)
Bit-Sync (011)
-more- 1 of 2
Byte-Sync (100)
Reserved (101)
Reserved (110)
Reserved (111)
-more- 2 of 2
Byte-Sync
Reserved
T.S. 0.181
VC-AIS
-more-

=====

43.

```
----P_TX_PATH_OVERHEAD_VC12_PARAM1----  
Transmitting <var> STS-1 : 1 under test  
Overhead View ..... STS Path Overhead
```

```
V5 Signal Label ..... <var>  
  
      Path Overhead          Path Trace Message  
V5:                                       
J2: <nbr>          <bmp      TEK CTS850  
N2: <nbr>  
K4: <nbr>
```

```
-----  
  
Item TX_PATH_OVERHEAD_SELECT_VC12  
  STS Path Overhead  
  V5 Byte  
  VC4  
  VC3 Overhead  
  VC12 Overhead  
  
Item ..._V5 ("V5 Signal Label ...")  
  Unequip (000)  
  Equipped (001)  
  Async (010)  
  Bit-Sync (011)  
  -more- 1 of 2  
  Byte-Sync (100)  
  Reserved (101)  
  Reserved (110)  
  Reserved (111)  
  -more- 2 of 2  
  Byte-Sync  
  Reserved  
  T.S. 0.181  
  VC-AIS  
  -more-  
  
Item TX_PATH_OVERHEAD_TRIB_TU12_SIG_LABEL  
  Unequip (000)  
  Equipped (001)  
  Async (010)  
  Bit-Sync (011)  
  -more- 1 of 2  
  Byte-Sync (100)  
  Reserved (101)  
  Reserved (110)  
  Reserved (111)  
  -more- 2 of 2  
  Byte-Sync  
  Reserved  
  T.S. 0.181  
  VC-AIS  
  -more-  
  
Item TX_PATH_OVERHEAD_TRIB_VALUE_J2  
  Null Trace  
  Default Trace  
  EDIT TRACE
```

Item TX_PATH_OVERHEAD_TRIB_VALUE_Z6
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_Z7
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

=====

44.

----P_TX_PATH_OVERHEAD_VC3_PARAM1----

Transmitting <var> STS-1 : 1 under test
Overhead View STS Path Overhead

C2 Signal Label <var>
H4 Multiframe Sequence 4 Bytes

	Path Overhead	Path Trace Message
J1:	<nbr> <bmp>	
B3:	<nbr>	
C2:	<nbr>	
G1:		
F2:	<nbr>	
H4:	<nbr>	
Z3:	<nbr>	
Z4:	<nbr>	
Z5:	<nbr>	

Item TX_PATH_OVERHEAD_SELECT_VC3 ("Overhead View ...")
STS Path Overhead
V5 Byte
VC4
VC3 Overhead
VC12 Overhead

Item ..._C2 ("C2 Signal Label ...")
Unequip- ped
Equipped Non-specific
TUG
TU-n Locked
-more- 1 of 3
Async 34 Mb/s / 34 or 45 Mb/s
140 Mb/s Asynchronous
ATM
MAN (DQDB)
-more- 2 of 3
FDDI
0.181 Test Signal
VC-AIS
PPP
-more- 3 of 3

Item ..._H4 ("H4 Multiframe Sequence ...")
4 Bytes
48 Bytes

Item TX_PATH_OVERHEAD_TRIB_VALUE_J1
Reset Overhead
Null Trace
Default Trace
User Trace
EDIT TRACE
Null Trace
Default Trace
EDIT TRACE
64-Byte Format
16-Byte Format
EDIT TRACE
-more- 1 of 2
Null Trace
Default Trace
-more- 2 of 2

Item TX_PATH_OVERHEAD_TRIB_VALUE_C2

Reset Overhead
00000000 (Unequipped)
00000001 (Equipped)
Default <number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_G1 ("014\014\014\014")
000
001
010
011
-more- 1 of 2
100
101
110
111
-more- 2 of 2

Item TX_PATH_OVERHEAD_TRIB_VALUE_F2
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_H4
Default <number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_Z3
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_Z4
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

Item TX_PATH_OVERHEAD_TRIB_VALUE_Z5
Reset Overhead
00000001
00000000
<number>
EDIT BYTE

=====

45.

```
----P_TX_POINTERS_TIMING_FREQUENCY_PARAM1----  
Pointer / Timing Mode ..... Pointer Movements  
Offset Mode ..... Offset Line (Payload fixed)  
Frequency Offset ..... <nbr>
```

Press POINTER ACTION for a single movement. <nbr>
It will alternate between increment and decrement.

```
-----  
  
Item TX_POINTERS_TIMING_MODE_FO ("Pointer / Timing Mode ...")  
  Pointer Movement  
  Frequency Offset  
  Pointer Sequences  
  Pointer Seq. with Trib. Offset  
  
Item SOURCE_CLOCK_OFFSET_MODE ("Offset Mode ...")  
  Line  
  Payload (AU Pointers)  
  Tributary (Mapping)  
  
Item TX_POINTERS_TIMING_OFFSET ("Frequency Offset ...")  
  Max +100ppm  
  Stress +4.6ppm  
  Stress -4.6ppm  
  Default 0ppm  
  USER DEFINED  
=====
```

46.

```
----P_TX_POINTERS_TIMING_PARAM1----  
Pointer / Timing Mode ..... Pointer Movements  
Pointer Type ..... STS Pointer  
Pointer Control ..... Set Value  
Pointer Rate ..... <nbr>  
Pointer Direction ..... Increment  
Pointer ss-Bits ..... 00
```

Press POINTER ACTION for a single movement. <nbr>
It will alternate between increment and decrement.

```
-----  
  
Item TX_POINTERS_TIMING_MODE ("Pointer / Timing Mode ...")  
  Pointer Movement  
  Frequency Offset  
  Pointer Sequences  
  Pointer Seq. with Trib. Offset  
  
Item TX_POINTERS_TIMING_TYPE ("Pointer Type ...")  
  STS Pointer  
  VT Pointer  
  AU Pointer  
  TU Pointer  
  
Item TX_POINTERS_TIMING_CONTROL ("Pointer Control ...")  
  Single  
  Burst  
  Set Value  
  Continuous  
  Single  
  Burst  
  Set Value  
  Continuous  
  
Item TX_POINTERS_TIMING_NBURST ("Pointer Rate ...")  
  2  
  3  
  4  
  5  
  -more- 1 of 2  
  6  
  7  
  8  
  -more- 2 of 2  
  
Item TX_POINTERS_TIMING_MOVEMENT_VALUE ("Pointer Rate ...")  
  Min 0  
  Max 782  
  Default 522  
  Illegal (Max+1)  
  USER DEFINED  
  Max 103  
  Default 78  
  Illegal  
  Max 139  
  Default 105  
  Illegal  
  Max 764
```

Default 595
Illegal

Item TX_POINTERS_TIMING_MOVEMENT_NDF ("Pointer Direction ...")
Yes
No
Yes
No

Item TX_POINTERS_TIMING_MOVEMENT_SBITS ("Pointer ss-Bits ...")
00
01
10
11

Item TX_POINTERS_TIMING_POINTER_RATE ("Pointer Rate ...")
Max 2ms
Min 10000ms
Default 50ms
USER DEFINED
48ms
36ms
2ms

Item TX_POINTERS_TIMING_DIRECTION ("Pointer Direction ...")
Increment
Decrement
Alternate
Increment
Decrement
Alternate

=====

47.

```
----P_TX_POINTERS_TIMING_SEQUENCE_PARAM1----
Pointer / Timing Mode ..... Pointer Movements
Pointer Type ..... STS Pointer
Sequence Type (G.783)..... a) Single Alternating
Pointer Direction ..... Increment
Pointer Rate ..... <nbr>
Initialization Time .....
Cool Down Time .....
Tributary Mapping Offset ... <nbr>
Status: Current State: Not Running
       Time Between Anomalies: <nbr>
       Time Until Next Anomaly: <nbr>
```

Press POINTER ACTION to START Pointer Sequences

```
-----
Item TX_POINTERS_TIMING_MODE_PS ("Pointer / Timing Mode ...")
  Pointer Movement
  Frequency Offset
  Pointer Sequences
  Pointer Seq. with Trib. Offset

Item TX_POINTERS_TIMING_TYPE_PS ("Pointer Type ...")
  STS Pointer
  VT Pointer
  AU Pointer
  TU Pointer

Item SOURCE_DATA_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783)...")
  Single
  Burst
  Phase Transient
  Periodic Continuous
  -more- 1 of 4
  Single
  Burst
  Phase Transient
  Periodic Continuous
  Single Alternating
  Regular + Double
  Regular + Missing
  Double Alternating
  Single Alternating
  Regular + Double
  Regular + Missing
  Double Alternating
  Periodic Continuous With Cancel
  Periodic Continuous With Add
  Periodic 87-3
  Periodic 87-3 With Cancel
  -more- 2 of 4
  Periodic Continuous With Cancel
  Periodic Continuous With Add
  Periodic 26-1
  Periodic 26-1 With Cancel
  Single
  Burst
  Periodic 85-5
  Periodic 85-5 With Add
  Single
  Burst
  Periodic 35-1
```

Periodic 35-1 With Add
Single
Burst
Periodic 87-3
Periodic 87-3 With Add
Periodic 87-3 With Add
Single Alternating
Double Alternating
-more- 3 of 4
Periodic 26-1 With Add
Single Alternating
Double Alternating
Periodic 85-5 With Cancel
Periodic Continuous
Periodic Continuous With Add
Periodic Continuous With Cancel
Periodic 35-1 With Cancel
Periodic Continuous
Periodic Continuous With Add
Periodic Continuous With Cancel
Periodic 87-3 With Cancel
Periodic Continuous
Periodic Continuous With Add
Periodic Continuous With Cancel
-more- 4 of 4
Phase Transient
Phase Transient

Item SOURCE_DATA_TRIBUTARY_POINTER_SEQUENCE_TYPE ("Sequence Type (G.783)...")

Single
Burst
Phase Transient
Periodic Continuous
-more- 1 of 4
Single
Burst
Phase Transient
Periodic Continuous
Single Alternating
Regular + Double
Regular + Missing
Double Alternating
Single Alternating
Regular + Double
Regular + Missing
Double Alternating
Periodic Continuous With Cancel
Periodic Continuous With Add
Periodic 87-3
Periodic 87-3 With Cancel
-more- 2 of 4
Periodic Continuous With Cancel
Periodic Continuous With Add
Periodic 26-1
Periodic 26-1 With Cancel
Single
Burst
Periodic 85-5
Periodic 85-5 With Add
Single
Burst
Periodic 35-1
Periodic 35-1 With Add
Single
Burst
Periodic 87-3
Periodic 87-3 With Add

Periodic 87-3 With Add
 Single Alternating
 Double Alternating
 -more- 3 of 4
 Periodic 26-1 With Add
 Single Alternating
 Double Alternating
 Periodic 85-5 With Cancel
 Periodic Continuous
 Periodic Continuous With Add
 Periodic Continuous With Cancel
 Periodic 35-1 With Cancel
 Periodic Continuous
 Periodic Continuous With Add
 Periodic Continuous With Cancel
 Periodic 87-3 With Cancel
 Periodic Continuous
 Periodic Continuous With Add
 Periodic Continuous With Cancel
 -more- 4 of 4
 Phase Transient
 Phase Transient

Item SOURCE_DATA_POINTER_SEQUENCE_DIRECTION ("Pointer Direction ...")
 Increment
 Decrement

Item SOURCE_DATA_TRIBUTARY_POINTER_SEQUENCE_DIRECTION ("Pointer Direction ...")
 Increment
 Decrement

Item TX_POINTERS_TIMING_SEQUENCE_RATE ("Pointer Rate ...")
 34ms
 100ms
 1000ms
 10000ms
 USER DEFINED
 1000ms
 2000ms
 5000ms
 10000ms
 USER DEFINED

Item TX_POINTERS_TIMING_SEQUENCE_IPERIOD_READOUT ("Initialization Time ...")
 On
 Off

Item TX_POINTERS_TIMING_TRIBUTARY_SEQUENCE_IPERIOD_READOUT ("Initialization Time ...")
 On
 Off

Item TX_POINTERS_TIMING_SEQUENCE_CPERIOD_READOUT ("Cool Down Time ...")
 On
 Off

Item TX_POINTERS_TIMING_TRIBUTARY_SEQUENCE_CPERIOD_READOUT ("Cool Down Time ...")
 On
 Off

Item TX_POINTERS_TIMING_SEQUENCE_MAPPING_OFFSET ("Tributary Mapping Offset ...")
 Max +100ppm
 Stress +4.6ppm
 Stress -4.6ppm
 Default 0ppm
 USER DEFINED

=====

48.

```
----P_TX_SDH_K64_SETTINGS_PARAM1----
2 Mb/s Framing..... Framed
Configuration..... N x 64k
Number of Timeslots..... <nbr>
Starting Timeslot..... <nbr>
Test Pattern..... <nbr>2^23-1      Normal (ITU)
```

Active Timeslots

```
<< < << < << < < << < << < << < < << << < < <
  1      5      10     15     20     25     30
```

```
-----
Item ..._FRAMING ("2 Mb/s Framing...")
  Framed
  Unframed
  Ext Add
  Unframed
  Ext Add
  -more- 1 of 2
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
  PCM31
  C-Bit
  M13
  Unframed
  Ext Add
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
  PCM31
  -more- 2 of 2

Item ..._CONFIGURATION ("Configuration...")
  1 x 64k
  N x 64k Contiguous
  M x 64k Noncontiguous
  128K Contiguous
  384K Contiguous

Item ..._WIDTH ("Number of Timeslots...")
  SET VALUE
  Default T.S. 1 Only
  All Timeslots
  Edit Selection
  DONE
  Set
  Clear
  DONE

Item ..._TIMESLOT ("Starting Timeslot...")
  SET VALUE
  DONE

Item ..._TEST_PATTERN ("Test Pattern...")
  PRBS 2^23-1
  PRBS 2^20-1
  PRBS 2^15-1
```

```

PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

```

```

Item ..._TEST_PATTERN_POLARITY ("Test Pattern...")
Normal (ITU)
Inverted (Non-ITU)

```

```

Item ..._UBYTE ("Test Pattern...")
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1

```

PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

=====

49.

```
-----P_TX_SDH_SETTINGS_PARAM1-----
Transmit Rate ..... STM-4          Optical
Transmit Clock ..... Internal
AU Under Test ..... ligh
SDH Structure ..... AU-4 Bulk
TU Under Test ..... :1 (Group 1, TUG-2:1    TU-12:1
  TU Background Fill ..... Idle (11010101)
Payload Structure ..... 140 Mb/s(ipped)Framed
Add Signal Type & Level .... HDB3>2^23-1    Normal (X-C)TU)
  34Mb/s Active Channel..... 1      Background    2^15-1
  8Mb/s Active Channel..... 1      Background    2^15-1
  2Mb/s Active Channel..... 1      Background    2^15-1
Tx/Rx Setup ..... Independent
```

Item ..._RATE ("Transmit Rate ...")

STM-4
STM-1
STM-0
-more- 1 of 2
140 Mb/s
140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s
-more- 2 of 2
45 Mb/s

Item ..._QUALIFIER ("Transmit Rate ...")

Optical
Electrical

Item ..._CLOCK ("Transmit Clock ...")

Internal
Recovered
External 2 Mb/s 2 MHz
External 1.5 Mb/s BITS
External DS_n

Item ..._LEVEL ("Transmit Level ...")

Cross Connect
High
0 dB
-6 dB

Item ..._AU ("Transmit Level ...")

1
2
3
4
-more- 1 of 3
5
6
7
8
-more- 2 of 3
9
10
11
12
-more- 3 of 3

```

Item ..._STRUCTURE ("SDH Structure ...")
  VC4-4c Bulk
  AU-4 Bulk
  AU-4 140 Mb/s
  TU-3 Async 34 Mb/s / 34 or 45 Mb/s
  TU-12 Async 2 Mb/s

Item ..._TU_GROUP ("TU Under Test ...")
  VT :1
  VT :28
  Next
  Previous
  TU-3:1
  TU-3:2
  TU-3:3
  All TU-3s
  TUG-3:1
  TUG-3:2
  TUG-3:3
  All TU-12s

Item ..._TU2 ("TU Under Test ...")
  TUG-2:1
  TUG-2:2
  TUG-2:3
  TUG-2:4
  -more- 1 of 2
  TUG-2:5
  TUG-2:6
  TUG-2:7
  -more- 2 of 2

Item ..._TU12 ("TU Under Test ...")
  TU-12:1
  TU-12:2
  TU-12:3

Item ..._TU_FILL_PATTERN ("TU Background Fill ...")
  PRBS 2^15-1
  Idle

Item ..._BULK_PAYLOAD ("Payload Structure ...")
  Bulk Fill Test Signal \200\0240.181
  Bulk Fill Equipped
  Bulk Fill Unequipped

Item ..._TU_PAYLOAD ("Payload Structure ...")
  140 Mb/s
  34 Mb/s
  8 Mb/s
  2 Mb/s
  64 Kb/s
  45 Mb/s

Item ..._TU_PAYLOAD_FRAMING ("      ")
  Framed
  Unframed
  Ext Add
  Unframed
  Ext Add
  -more- 1 of 2
  PCM30 CAS / CRC
  PCM31 CRC
  PCM30 CAS
  PCM31
  C-Bit

```

M13
Unframed
Ext Add
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
-more- 2 of 2

Item ..._TEST_PATTERN ("Test Pattern ...")

PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")

Normal (ITU)
Inverted (Non-ITU)

Item ..._UBYTE ("Test Pattern ...")

```

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
  -more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
  -more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
  -more-
All Ones
All Zeros
User Word
  -more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
  -more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
  -more-
All Ones
All Zeros
1 in 8
3 in 24
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
  -more- 3 of 3
1020 Hz 0 dBm
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
  -more-

```

Item ..._EXTADD_TYPE ("Test Pattern ...")

```

HDB3
AMI
B3ZS
HDB3 (Unbalanced)
HDB3 (Balanced)
AMI (Unbalanced)
AMI (Balanced)

```

Item ..._EXTADD_LEVEL ("Test Pattern ...")

```

Normal
Monitor (-20 dB)
Monitor (-30 dB)
Bridge
Normal

```

Monitor (-20 dB)
Monitor (-30 dB)

Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
1
2
3
4
All

Item ..._M34_FILL_PATTERN ("Background")
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
-more- 1 of 2
All Ones
All Zeros
10101010
-more- 2 of 2

Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
1
2
3
4
All

Item ..._M8_FILL_PATTERN ("Background")
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
-more- 1 of 2
All Ones
All Zeros
10101010
-more- 2 of 2

Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
1
2
3
4
All

Item ..._M2_FILL_PATTERN ("Background")
PRBS 2^15-1
All Ones
All Zeros
10101010

Item ..._COUPLING ("Tx/Rx Setup ...")
Independ- ent
Coupled
Through Mode

=====

50.

```
----P_TX_SDH_SETTINGS_TRIB_PARAM1----
Transmit Rate ..... STM-4          Balanced
Transmit Clock ..... Internal
Line Clock Offset ..... <nbr>
SDH Output ..... Disabled          Optical
Transmit Level ..... 0 dB

Payload Structure ..... 140 Mb/      Framed
Add Signal Type & Level .... HDB3>2^23-1  Normal (X-C)TU)
  34Mb/s Active Channel..... 1      Background  2^15-1
  8Mb/s Active Channel..... 1      Background  2^15-1
  2Mb/s Active Channel..... 1      Background  2^15-1
Tx/Rx Setup ..... Independent
```

```
-----
Item ..._RATE ("Transmit Rate ...")
  STM-4
  STM-1
  STM-0
  -more- 1 of 2
  140 Mb/s
  140 Mb/s
  34 Mb/s
  8 Mb/s
  2 Mb/s
  -more- 2 of 2
  45 Mb/s

Item ..._QUALIFIER ("Transmit Rate ...")
  HDB3
  AMI
  B3ZS
  HDB3 (Unbalanced)
  HDB3 (Balanced)
  AMI (Unbalanced)
  AMI (Balanced)

Item ..._CLOCK ("Transmit Clock ...")
  Internal
  Recovered
  External 2 Mb/s 2 MHz
  External 1.5 Mb/s BITS
  External DSn

Item TX_SDH_SETTINGS_POINTERS_TIMING_TRIBUTARY_OFFSET ("Line Clock Offset ...")
  Max +100ppm
  Stress +4.6ppm
  Stress -4.6ppm
  Default 0ppm
  USER DEFINED

Item ..._SDH_KEEPALIVE ("SDH Output ...")
  Disabled
  STM-4
  STM-1
  STM-0

Item ..._SDH_KEEPALIVE_QUALIFIER ("SDH Output ...")
  Optical
  Electrical
```

Item TX_TRIB_SETTINGS_SELECT_LEVEL ("Transmit Level ...")

0 dB
-6 dB

Item ..._PAYLOAD ("Payload Structure ...")

140 Mb/s
34 Mb/s
8 Mb/s
2 Mb/s
64 Kb/s
45 Mb/s

Item ..._PAYLOAD_FRAMING ("Payload Structure ...")

Framed
Unframed
Ext Add
Unframed
Ext Add
-more- 1 of 2
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
C-Bit
M13
Unframed
Ext Add
PCM30 CAS / CRC
PCM31 CRC
PCM30 CAS
PCM31
-more- 2 of 2

Item ..._TEST_PATTERN ("Test Pattern ...")

PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24

-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item ..._TEST_PATTERN_POLARITY ("Test Pattern ...")
Normal (ITU)
Inverted (Non-ITU)

Item ..._UBYTE ("Test Pattern ...")

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit

```

User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item ..._EXTADD_TYPE ("Test Pattern ...")
HDB3
AMI
B3ZS
HDB3 (Unbalanced)
HDB3 (Balanced)
AMI (Unbalanced)
AMI (Balanced)

Item ..._EXTADD_LEVEL ("Test Pattern ...")
Normal
Monitor (-20 dB)
Monitor (-30 dB)
Bridge
Normal
Monitor (-20 dB)
Monitor (-30 dB)

Item ..._M34_CHANNEL ("34Mb/s Active Channel...")
1
2
3
4
All

Item ..._M34_FILL_PATTERN ("Background")
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
-more- 1 of 2
All Ones
All Zeros
10101010
-more- 2 of 2

Item ..._M8_CHANNEL ("8Mb/s Active Channel...")
1
2
3
4
All

Item ..._M8_FILL_PATTERN ("Background")
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
-more- 1 of 2
All Ones
All Zeros
10101010
-more- 2 of 2

Item ..._M2_CHANNEL ("2Mb/s Active Channel...")
1
2
3
4
All

```

Item ..._M2_FILL_PATTERN ("Background")
PRBS 2^15-1
All Ones
All Zeros
10101010

Item ..._COUPLING ("Tx/Rx Setup ...")
Independ- ent
Coupled
Through Mode

=====

51.

```
----P_TX_SETTINGS_PARAM1----
Transmit Rate ..... STS-1
Transmit Clock ..... Internal
Transmit Level ..... High
Signal Structure ..... 1 x STS-1
STS Under Test ..... 1
Mapping ..... Bulk Fill (Equipped)
VT Under Test ..... :1 (Group 1, VT 1)   TU-12:1
Payload ..... DS1 External Add
Test Pattern ..... <nbr>2^23-1
Background Pattern ..... Idle (11010101)
Tx/Rx Settings ..... Independent
```

```
-----
Item ..._RATE ("Transmit Rate ...")
  STS-1
  STS-3
  OC-1
  OC-3
  -more- 1 of 2
  STM-1E (Electrical)
  STM-1 (Optical)
  STM-4 (Optical)
  1 of 2
  -more- 1 of 3
  OC-12
  DS1
  DS3
  -more- 2 of 2
  STM-0E
  STM-0
  -more- 2 of 3
  2 Mb/s Balanced
  2 Mb/s Unbalance
  34 Mb/s
  140 Mb/s
  -more- 3 of 3

Item ..._CLOCK ("Transmit Clock ...")
  Internal
  Recovered
  External 2 Mb/s 2 MHz
  External 1.5 Mb/s BITS
  External DSn

Item ..._LEVEL ("Transmit Level ...")
  Cross Connect
  High
  0 dB
  -6 dB

Item ..._SIGNAL_STRUCTURE ("Signal Structure ...")
  3 x STS-1
  1 x STS-3c
  12 x STS-1
  4 x STS-3c

Item ..._SPE ("STS Under Test ...")
  1
  2
```

3
4
-more- 1 of 3
5
6
7
8
-more- 2 of 3
9
10
11
12
-more- 3 of 3

Item ..._SPE_MAPPING ("Mapping ...")
Bulk Fill No Mapping (Equipped)
Bulk Fill No Mapping (Unequipped)
VT1.5 Async
DS3
TU-12 Async
TU-3 Async
140 Mb/s

Item ..._VT_GROUP ("VT Under Test ...")
VT :1
VT :28
Next
Previous
TU-3:1
TU-3:2
TU-3:3
All TU-3s
TUG-3:1
TUG-3:2
TUG-3:3
All TU-12s

Item ..._TU_TU12_CHANNEL ("VT Under Test ...")
TU-12:1 TUG-2:1 TU-12:1
TU-12:2 TUG-2:1 TU-12:2
TU-12:3 TUG-2:1 TU-12:3
TU-12:4 TUG-2:2 TU-12:1
-more- 1 of 6
TU-12:5 TUG-2:2 TU-12:2
TU-12:6 TUG-2:2 TU-12:3
TU-12:7 TUG-2:3 TU-12:1
TU-12:8 TUG-2:3 TU-12:2
-more- 2 of 6
TU-12:9 TUG-2:3 TU-12:3
TU-12:10 TUG-2:4 TU-12:1
TU-12:11 TUG-2:4 TU-12:2
TU-12:12 TUG-2:4 TU-12:3
-more- 3 of 6
TU-12:13 TUG-2:5 TU-12:1
TU-12:14 TUG-2:5 TU-12:2
TU-12:15 TUG-2:5 TU-12:3
TU-12:16 TUG-2:6 TU-12:1
-more- 4 of 6
TU-12:17 TUG-2:6 TU-12:2
TU-12:18 TUG-2:6 TU-12:3
TU-12:19 TUG-2:7 TU-12:1
TU-12:20 TUG-2:7 TU-12:2
-more- 5 of 6
TU-12:21 TUG-2:7 TU-12:3
-more- 6 of 6

Item ..._VT_FRAMING ("Payload ...")

DS1 Ext Add
 DS1 Unframed
 DS1 SF (D4)
 DS1 ESF
 140Mb/s Ext Add
 140Mb/s Unframed
 140Mb/s Framed
 2 Mb/s Ext Add (Balanced)
 2 Mb/s Ext Add (Unbalanced)
 2 Mb/s Unframed
 2 Mb/s PCM30 (CAS)
 -more- 1 of 2
 34 Mb/s
 34 Mb/s
 34 Mb/s
 DS3 Ext Add
 DS3 Unframed
 DS3 C-bit
 DS3 M13
 2 Mb/s PCM31
 2 Mb/s PCM30CRC (CAS)
 2 Mb/s PCM31CRC
 -more- 2 of 2

Item ..._TEST_PATTERN ("Test Pattern ...")

PRBS 2²³-1
 PRBS 2²⁰-1
 PRBS 2¹⁵-1
 PRBS 2⁹-1
 -more- 1 of 2
 PRBS 2²³-1
 PRBS 2²⁰-1
 PRBS 2¹⁵-1
 PRBS 2¹¹-1
 -more- 1 of 3
 PRBS 2²³-1
 PRBS 2²⁰-1
 PRBS 2¹⁵-1
 QRSS 2²⁰-1
 -more-
 All Ones
 All Zeros
 User Word
 -more- 2 of 2
 PRBS 2⁹-1
 1 in 8
 All Ones
 All Zeros
 -more- 2 of 3
 PRBS 2⁹-1
 All Ones
 All Zeros
 TS Idle
 -more-
 All Ones
 All Zeros
 1 in 8
 3 in 24
 -more-
 Set to 00000000
 Set to 11111111
 Default 10101010
 EDIT BYTE
 Predefined Patterns
 Edit 24 bits
 Edit 16 bits
 User Word 8 bit

User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item ..._UBYTE ("Test Pattern ...")

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2⁹-1
-more- 1 of 2
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
PRBS 2¹¹-1
-more- 1 of 3
PRBS 2²³-1
PRBS 2²⁰-1
PRBS 2¹⁵-1
QRSS 2²⁰-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2⁹-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2⁹-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item ..._VT_BACKGROUND_PATTERN ("Background Pattern ...")

QRSS 2²⁰-1
Idle (11010101)
PRBS 2¹⁵-1

Idle

Item ..._TX_RX ("Tx/Rx Settings ...")
 Independent
 Coupled
 Through Mode

=====

52.

----P_TX_SETTINGS_THROUGH_MODE_PARAM1----

The test set is in Through Mode.
The transmitted signal is identical to the received
signal. Transmitter changes will have no effect
in this mode.

Tx/Rx Settings Independent

Item TX_SETTINGS_SELECT_THROUGH_MODE_TX_RX ("Tx/Rx Settings ...")
 Independ- ent
 Coupled
 Through Mode

=====

53.

```
----P_TX_SETTINGS_TRIB_PARAM1----  
Transmit Rate ..... STS-1  
Transmit Clock ..... Internal  
Line Clock Offset ..... <nbr>  
Transmit Line Code ..... AMI  
  
Framing ..... DS1 External Add  
  
Test Pattern ..... <nbr>2^23-1  
  
Tx/Rx Settings ..... Independent
```

```
Item TX_SETTINGS_SELECT_TRIB_RATE ("Transmit Rate ...")  
  STS-1  
  STS-3  
  OC-1  
  OC-3  
  -more- 1 of 2  
  STM-1E (Electrical)  
  STM-1 (Optical)  
  STM-4 (Optical)  
  1 of 2  
  -more- 1 of 3  
  OC-12  
  DS1  
  DS3  
  -more- 2 of 2  
  STM-0E  
  STM-0  
  -more- 2 of 3  
  2 Mb/s Balanced  
  2 Mb/s Unbalance  
  34 Mb/s  
  140 Mb/s  
  -more- 3 of 3  
  
Item TX_SETTINGS_SELECT_TRIB_CLOCK ("Transmit Clock ...")  
  Internal  
  Recovered  
  External 2 Mb/s 2 MHz  
  External 1.5 Mb/s BITS  
  External DSn  
  
Item TX_POINTERS_TIMING_TRIBUTARY_OFFSET ("Line Clock Offset ...")  
  Max +100ppm  
  Stress +4.6ppm  
  Stress -4.6ppm  
  Default 0ppm  
  USER DEFINED  
  
Item TX_SETTINGS_SELECT_LINE_CODE ("Transmit Line Code ...")  
  AMI  
  B8ZS  
  
Item TX_SETTINGS_SELECT_TRIBUTARY_FRAMING ("Framing ...")  
  DS1 Unframed  
  DS1 SF (D4)  
  DS1 ESF
```

2 Mb/s Unframed
2 Mb/s PCM30 (CAS)
2 Mb/s PCM31
2 Mb/s PCM30CRC (CAS)
2 Mb/s PCM31CRC
34 Mb/s
34 Mb/s Framed
140 Mb/s
140 Mb/s
DS3
DS3 C-bit
DS3 M13

Item TX_SETTINGS_SELECT_TRIB_TEST_PATTERN ("Test Pattern ...")

PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
-more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
-more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
-more-
All Ones
All Zeros
User Word
-more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
-more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
-more-
All Ones
All Zeros
1 in 8
3 in 24
-more-
Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more- 3 of 3
1020 Hz 0 dBm
-more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
-more-

Item TX_SETTINGS_SELECT_TRIB_UBYTE ("Test Pattern ...")

```

Set to 00000000
Set to 11111111
Default 10101010
EDIT BYTE
Predefined Patterns
Edit 24 bits
Edit 16 bits
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^9-1
  -more- 1 of 2
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
PRBS 2^11-1
  -more- 1 of 3
PRBS 2^23-1
PRBS 2^20-1
PRBS 2^15-1
QRSS 2^20-1
  -more-
All Ones
All Zeros
User Word
  -more- 2 of 2
PRBS 2^9-1
1 in 8
All Ones
All Zeros
  -more- 2 of 3
PRBS 2^9-1
All Ones
All Zeros
TS Idle
  -more-
All Ones
All Zeros
1 in 8
3 in 24
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
  -more- 3 of 3
1020 Hz 0 dBm
  -more-
User Word 8 bit
User Word 16 bit
User Word 24 bit
  -more-

```

```

Item TX_SETTINGS_SELECT_TRIB_TX_RX ("Tx/Rx Settings ...")
  Independ- ent
  Coupled
  Through Mode

```

```

=====

```

54.

```
----P_TX_TRANSPORT_OVERHEAD_PARAM1----
Transmitting      <var>          STS-1 : 1  under test
Showing Overhead for .....    STS-1 :1
External Add .....    None
J0 RS Trace .....    Tek CTS 850
S1 Sync. Status Message ....   Quality Unknown
  Column ?          Column ?          Column ?
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
<var <nbr>          <var <nbr>          <var <nbr>
```

```
-----
Item ..._COLUMNS_HIF
  STS-1 :1
  STS-1 :2
  STS-1 :3
  STS-1 :4
  -more- 1 of 3
  AU-4 :1 cols 1,4,7
  AU-4 :1 cols 2,5,8
  AU-4 :1 cols 3,6,9
  AU-4 :2 cols 1,4,7
  STS-3c :1
  STS-3c :1
  STS-3c :1
  STS-3c :2
  STS-1 :5
  STS-1 :6
  STS-1 :7
  STS-1 :8
  -more- 2 of 3
  AU-4 :2 cols 2,5,8
  AU-4 :2 cols 3,6,9
  AU-4 :3 cols 1,4,7
  AU-4 :3 cols 2,5,8
  STS-3c :2
  STS-3c :2
  STS-3c :3
  STS-3c :3
  STS-1 :9
  STS-1 :10
  STS-1 :11
  STS-1 :12
  -more- 3 of 3
  AU-4 :3 cols 3,6,9
  AU-4 :4 cols 1,4,7
  AU-4 :4 cols 2,5,8
  AU-4 :4 cols 3,6,9
  STS-3c :3
  STS-3c :4
  STS-3c :4
  STS-3c :4
```

```
Item ..._EXTERNAL_ADD ("External Add ...")
  None
  D1-D3
  D4-D12
  F1
```

-more- 1 of 2
E1
E2
E1 from Handset
E2 from Handset
-more- 2 of 2

Item TX_TRANSPORT_OVERHEAD_TRACE_J0 ("J0 RS Trace ...")
Disable Trace
Enable Trace
Null Trace
Default Trace
EDIT TRACE

Item TX_TRANSPORT_OVERHEAD_S1_MESSAGE ("S1 Sync. Status Message ...")
Quality Unknown
G.811 PRC
G.812 Transit
G.812 Local
-more- 1 of 2
G.813 SETS
Do Not Use
-more- 2 of 2

Item SOURCE_DATA_OVERHEAD_BYTENAM_A1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAM_A2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAM_C1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAM_B1

Item SOURCE_DATA_OVERHEAD_BYTENAM_E1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAM_F1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAM_D1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_D2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_D3
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_H1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_H2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_H3

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_B2

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_K1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_K2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_D4
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_D5
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAMEN_D6
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D7
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D8
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D9
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D10
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D11
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_D12
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_Z1
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_Z2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

Item SOURCE_DATA_OVERHEAD_BYTENAME_E2
Reset Overhead
Set to 10101010
Set to 11111111
Default <number>
EDIT BYTE

=====

55.

```

----P_UTILITY_CALIBRATION_PARAM1----
Calibration Control ..... Ready
Calibration System ..... Jitter Measurement
  Calibration Routine ..... All

```

```

STATUS
  <var>           <var>
  Rate           Generator           Measurement
  STM-4 .....   Not available      <var>
  STM-1 .....   <var>              <var>
  STM-0 .....   <var>              <var>
  140 Mb/s ..... <var>            <var>
  34 Mb/s ..... <var>            <var>
  8 Mb/s .....  <var>            <var>
  2 Mb/s .....  <var>            <var>

```

```

-----
Item UTILITY_CALIBRATION_CONTROL ("Calibration Control ...")
  Run

Item UTILITY_CALIBRATION_SYSTEM ("Calibration System ...")
  Jitter Measure
  Jitter Generation

Item UTILITY_CALIBRATION_ROUTINE ("Calibration Routine ...")
  All
  STM-0
  STM-1
  STM-4
  -more- 1 of 3
  All
  STM-0
  STM-1
  STM-4
  All
  STM-0
  STM-1
  STM-4
  -more- 1 of 2
  2 Mb/s
  34 Mb/s
  45 Mb/s
  140 Mb/s
  -more- 2 of 3
  Analog Output
  -more- 2 of 2
  2 Mb/s
  34 Mb/s
  45 Mb/s
  140 Mb/s
  -more-
  140 Mb/s
  Analysis Type ..... Test Type
  .....
  Allocation ..... Include UAS
  ..... Limit ..... APO Multiplier .....
  Section ES ..... SES ..... Path ES ..... SES .....
  Current Results Acceptable / Unacceptable / Degraded / Provisional / Pass / Fail
/ No Data Near End Far End RS
  MS HP LP
  G.826 G.826 / M.2100 / M.2101 SDH Allocation .....
<number>

```

```
PDH Allocation ..... <number> No / Yes Limit .....  
<number>  
Near End Far End Near End Far End  
RS 45 MS HP LP  
140 34 8 2  
140 Mb/s  
Analog Output  
-more- 3 of 3  
=====
```

56.

----P_UTILITY_DISK_UTILITY_PARAM1----

=====

57.

----P_UTILITY_INSTRUMENT_CONFIG_PARAM1----

Model:

Serial Number: 000000000

Hardware Revision:

Option Revision:

Firmware Revision:

Options:

Interface Module: < Not Installed >

Tributary Option: < Not Installed >

Jitter Option: < Not Installed >

Firmware Build Date:

=====

58.

```
----P_UTILITY_MISC_SETTINGS_PARAM1----
Display Brightness ..... High
Beeper ..... Off
  If ON, the beeper will sound when any error
  or alarm is detected in the received signal

Current Date ..... DD-MMM-YY
Current Time ..... HH:MM:SS

Front Panel Controls ..... Enabled

Menu Selection Knob
  Direction ..... Clockwise is Down
  Action at Top/Bottom ..... Wrap Around
```

```
-----
Item UTILITY_MISC_SETTINGS_DISPLAY_BRIGHTNESS ("Display Brightness ...")
  Low
  Medium
  High

Item SYSTEM_BEEP_CONTROL ("Beeper ...")
  On
  Off

Item UTILITY_SYSTEM_DATE ("Current Date ...")
  SET DATE

Item UTILITY_SYSTEM_TIME ("Current Time ...")
  SET TIME

Item LOCAL_CONTROL_LOCKOUT ("Front Panel Controls ...")
  Enabled
  Locked when Test Running
  Locked

Item UTILITY_KNOB_MODE_DIRECTION ("Direction ...")
  Clockwise Down
  Clockwise Up

Item UTILITY_KNOB_MODE_BEHAVIOR ("Action at Top/Bottom ...")
  Wrap Around
  Stop
=====
```

59.

----P_UTILITY_PRINTER_SETUP_PARAM1----
Printer Type Tek DPU-411
(No graphical data)

RS-232:
Baud Rate 1200
Stop Bits 1
Parity None
Flow Control Hardware

Print User & Company Off
User Name
Company Name

Item HCOPIY_DEVICE_LANGUAGE ("Printer Type ...")
Tek DPU-411
Epson
Thinkjet
ASCII Text
-more- 1 of 2
To Disk BMP Format
To Disk Ileaf Format
To Disk EPS Format
To Disk ASCII Text
-more- 2 of 2

Item UTILITY_PRINTER_SETUP_SERIAL_BAUD ("Baud Rate ...")
1200
2400
4800
9600

Item UTILITY_PRINTER_SETUP_SERIAL_STOP ("Stop Bits ...")
1
2

Item UTILITY_PRINTER_SETUP_SERIAL_PARITY ("Parity ...")
None
Odd
Even

Item UTILITY_PRINTER_SETUP_SERIAL_HANDSHAKE ("Flow Control ...")
None
Software
Hardware
H/W & S/W

Item UTILITY_PRINTER_SETUP_TITLE_CONTROL ("Print User & Company ...")
Off
On

Item SYSTEM_OPERATOR ("User Name ...")
EDIT TEXT

Item SYSTEM_OWNER ("Company Name ...")
EDIT TEXT

=====

60.

----P_UTILITY_REMOTE_CONTROL_PARAM1----
GPIB Primary Address

RS-232:
Baud Rate 1200
Stop Bits 1
Parity None
Hardware Handshake Off
Software Handshake None
Data Carrier Detect Off
Tx Delay (Seconds) <nbr>
Tx Terminator LF

Item UTILITY_REMOTE_CONTROL_GPIB_ADDRESS ("GPIB Primary Address ...")
Default 4
Inc
Dec
Offline

Item SYSTEM_SERIAL_BAUD ("Baud Rate ...")
1200
2400
4800
9600

Item SYSTEM_SERIAL_STOP ("Stop Bits ...")
1
2

Item SYSTEM_SERIAL_PARITY ("Parity ...")
None
Odd
Even

Item SYSTEM_SERIAL_CONTROL_RTS ("Hardware Handshake ...")
Off
On

Item SYSTEM_SERIAL_PACE ("Software Handshake ...")
None
Xon/Xoff

Item SYSTEM_SERIAL_DCD ("Data Carrier Detect ...")
Off
On

Item SYSTEM_COMMUNICATE_SERIAL_TX_DELAY ("Tx Delay (Seconds) ...")
0
1
5
Inc
Dec

Item SYSTEM_SERIAL_TX_TERM ("Tx Terminator ...")
LF
CR
CR/LF
LF/CR
=====

61.

```
----P_UTILITY_SELF_TEST_PARAM1----  
Self Test Control ..... Ready  
Self Test Group ..... Power up Self Test  
  Self Test Routine ..... All  
Self Test Loop control..... Once  
View Results ..... Last Test
```

PASSED

```
-----  
  
Item UTILITY_SELF_TEST_CONTROL ("Self Test Control ...")  
  Run  
  Abort  
  
Item DIAG_SELECT_GROUP ("Self Test Group ...")  
  Self Test  
  SYS Int.  
  SYS Ext.  
    -more- 1 of 4 / of 3  
  Protocol Bd  
  Clock Bd  
  O/E Mod.  
  Tributary  
    -more- 2  
  CPU  
  Display  
  Front Panel  
  Disk  
    -more- 3  
  Jitter  
    -more- 4  
  500Hz  
  6.50kHz  
  65.0kHz  
  400kHz  
  USER DEFINED  
  1.00kHz  
  25.0kHz  
  250kHz  
  5.00MHz  
  20.0Hz  
  2.40kHz  
  18.0kHz  
  100kHz  
  20Hz  
  400Hz  
  3.0kHz  
  400kHz  
  100Hz  
  1.00kHz  
  10.0kHz  
  800kHz  
  200Hz  
  500Hz  
  10.0kHz  
  3.50MHz
```

10Hz
2.30kHz
60.0kHz
400kHz
Wideband
Highband
Fullband

Item DIAG_SELECT_ROUTINE ("Self Test Routine ...")
All

Item DIAG_SELECT_ROUTINE_CPU ("Self Test Routine ...")
All
Interrupt
I2C bus
Clk/Cal
-more- 1 of 2
Floating Pt. Processor
DUART
-more- 2 of 2

Item DIAG_SELECT_ROUTINE_PROTOCOL ("Self Test Routine ...")
All
Misc Regs.
SETI Regs.
Proto Regs.
-more- 1 of 4
Flash Vpp
Checksum
ITX RAM
IRX RAM
-more- 2 of 4
PRX RAM
ADC
Pwr Supply
IRX Fifo
-more- 3 of 4
52 Loop
155 Loop
622 Loop
VC4-4c
-more- 4 of 4

Item DIAG_SELECT_ROUTINE_CLOCK ("Self Test Routine ...")
All
Int. Ref.
Freq. Offs.

Item DIAG_SELECT_ROUTINE_OE ("Self Test Routine ...")
All
Status
Ident.
Access
-more- 1 of 3
Tx Opt Pwr
Rx Level
Int 52
Ext 52
-more- 2 of 3
Int 155
Ext 155
Int 622
Ext 622
-more- 3 of 3

Item DIAG_SELECT_ROUTINE_DISPLAY ("Self Test Routine ...")
All

- Video RAM
- Video DAC
- White Field
 - more- 1 of 3
- Grey Field
- White Box
- Test Grid
- Composite
 - more- 2 of 3
- Scroll
 - more- 3 of 3

Item DIAG_SELECT_ROUTINE_FPANEL ("Self Test Routine ...")

- All
- Internal
- LEDs
- Speaker
- Manual

Item DIAG_SELECT_ROUTINE_DISK ("Self Test Routine ...")

- Disk All
- Register
- Cache
- Counter
 - more- 1 of 2
- Controller
- Drive
- Fmt/Verify
- Dysan
 - more- 2 of 2

Item DIAG_SELECT_ROUTINE_TRIB ("Self Test Routine ...")

- All
- Flash Vpp
- Checksum
- Register Access
 - more- 1 of 4
- 1 of 9 / 1 of 8
- DS1 Ring
- DS3 Ring
- DS1 Test Set
- DS3 Test Set
 - more- 2 of 4
- 2Mbs (Balanced)
- 2Mb Ring
- 34Mb Ring
- 45Mb Ring
 - more- 2 of 9 / 2 of 8
- DS1 Line Interface (Internal)
- DS3 Line Interface (Internal)
- DS1 Line Interface (External)
- DS3 Line Interface (External)
 - more- 3 of 4
- 2Mb Test Set
- 8Mb Test Set
- 34Mb Test Set
- 140Mb Test Set
 - more- 3 of 9 / 3 of 8
- VT1.5 Map Demap
- DS3 Map Demap
 - more- 4 of 4
- 2Mb Line
- 8Mb Line
- 34Mb Line (Internal)
- 140M Line (Internal)
 - more- 4 of 9 / 4 of 8
- 2Mb Line (External)

8Mb Line (External)
 34Mb Line (External)
 140M Line (External)
 -more- 5 of 9 / 5 of 8
 TU-12 Map/Demap
 TU-3(34) Map/Demap
 140 Map/Demap
 -more- 6 of 9 / 6 of 8
 TU-3(45) Map/Demap
 140 Map/Demap
 -more-
 Mux/Dmx E1Chan
 Mux/Dmx E2Chan
 Mux/Dmx E3Chan
 -more- 7 of 9 / 7 of 8
 Mux/Dmx E1Patt
 Mux/Dmx E2Patt
 Mux/Dmx E3Patt
 -more- 8 of 9 / 8 of 8
 45Mb Test Set
 45Mb Line
 45Mb Line (External)
 -more- 9 of 9

Item DIAG_SELECT_ROUTINE_JITTER ("Self Test Routine ...")

All
 Register Access
 Flash Checksum
 FIFO
 -more- 1 of 6
 DAC Loop
 Divider A
 Track. PLL
 Clk Rec. (E1)
 -more- 2 of 6
 Clk Rec. (E2)
 Clk Rec. (E3)
 Clk Rec. (M45)
 Clk Rec. (E4/STM1)
 -more- 3 of 6
 Clk Rec. (STM0)
 Clk Rec. (STM4)
 Phase Detector
 PLL Locking
 -more- 4 of 6
 PLL Gain
 Analog Output
 LP Filter
 Wander Loop
 -more- 5 of 6
 Jitter Loop
 Jitter Gen.
 -more- 6 of 6

Item DIAG_SELECT_ROUTINE_MFG_RV ("Self Test Routine ...")

All

Item DIAG_SELECT_ROUTINE_MFG_RTC ("Self Test Routine ...")

All

Item DIAG_LOOP ("Self Test Loop control...")

Once
 Ten
 Thousand
 Until Error
 Forever

Item UTILITY_SELF_TEST_RESULTS ("View Results ...")
Print Log
Save Log to Disk
Error Log
Page Up
1 of 1 Page Down
=====