TLA7XX/TLA7XXX Series Tektronix Logic Analyzer Declassification and Security Instructions

Tektronix

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- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.

Logic Analyzer Technical Report

Date: July 1, 2005

Subject: Memory Erasure & Parts in TLA7AA1, TLA7AA2, TLA7AA3, TLA7AA4, TLA7AB2, TLA7AB4, TLA7NA1, TLA7NA2, TLA7NA3, TLA7NA4, TLA7N1, TLA7N2, TLA7N3, TLA7N4, TLA7P2, TLA7P4, TLA7Q2, TLA7Q4, TLA7XM, TLA7PG2, TLA7D1, TLA7D2, TLA7E1, TLA7E2.

MEMORY ERASURE PROCEDURE

Turn the power off for at least 20 seconds to clear volatile memory.

NVRAM does not contain any acquisition data (only cal constants, etc.).

If you have any questions, contact the Tektronix Technical Support Center at 1-800-833-9200*3.

MEMORY PARTS – TLA7AA1, TLA7AA2, TLA7AA3, TLA7AA4, TLA7AB2, TLA7AB4, TLA7NA1, TLA7NA2, TLA7NA3, TLA7NA4

671-5312-01 – LPU Board

Part Number	Reference designator	Description	Qty
156-3870-00	U612	IC, Memory, CMOS, NVRAM; 32K X 8, Integral Battery, Safety Controlled	1
156-7366-00	U810 U820 U831 U840	IC, Memory, DRAM, CMOS, 1MEG X 16	4
156-8036-00	U830	IC, Memory, CMOS, Flash, 2M X 8	1
156-8971-00	U541	IC, Memory, BICMOS	1

MEMORY PARTS – TLA7AA1

671-5351-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U471 U480 U570 U581 U630 U632 U640 U642 U650 U652 U660 U662	IC, Memory; CMOS, SDRAM; 4MB X 16	24

MEMORY PARTS – TLA7AA2

671-5350-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0770 U0781 U471 U480 U570 U581 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	32

MEMORY PARTS – TLA7AA3

671-5349-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0612 U0621 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0711 U0721 U0770 U0781 U471 U480 U570 U581 U611 U620 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U710 U720 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	40

MEMORY PARTS – TLA7AA4

671-5311-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0411 U0421 U0470 U0481 U0511 U0521 U0571 U0580 U0612 U0621 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0711 U0721 U0770 U0781 U410 U420 U471 U480 U510 U520 U570 U581 U611 U620 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U710 U720 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	48

MEMORY PARTS – TLA7AB2

671-5441-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9193-00	U0470 U0481 U0571 U0580 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0770 U0781 U471 U480 U570 U581 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	32

MEMORY PARTS – TLA7AB4

671-5442-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9193-00	U0411 U0421 U0470 U0481 U0511 U0521 U0571 U0580 U0612 U0621 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0711 U0721 U0770 U0781 U410 U420 U471 U480 U510 U520 U570 U581 U611 U620 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U710 U720 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	48

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MEMORY PARTS – TLA7NA1

671-9495-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U471 U480 U570 U581 U630 U632 U640 U642 U650 U652 U660 U662	IC, Memory; CMOS, SDRAM; 4MB X 16	24

MEMORY PARTS – TLA7NA2

671-9494-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0770 U0781 U471 U480 U570 U581 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	32

MEMORY PARTS – TLA7NA3

671-9493-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0470 U0481 U0571 U0580 U0612 U0621 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0711 U0721 U0770 U0781 U471 U480 U570 U581 U611 U620 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U710 U720 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	40

MEMORY PARTS – TLA7NA4

671-9492-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-9033-00	U0411 U0421 U0470 U0481 U0511 U0521 U0571 U0580 U0612 U0621 U0631 U0633 U0641 U0643 U0651 U0653 U0661 U0663 U0671 U0682 U0711 U0721 U0770 U0781 U410 U420 U471 U480 U510 U520 U570 U581 U611 U620 U630 U632 U640 U642 U650 U652 U660 U662 U670 U681 U710 U720 U771 U780	IC, Memory; CMOS, SDRAM; 4MB X 16	48

MEMORY PARTS – TLA7N1, TLA7N2, TLA7N3, TLA7N4

671-4252-00 – LPU Board

Part Number	Reference designator	Description	Qty
156-3870-00	U260	IC, Memory, CMOS, NVRAM; 32K X 8, SRAM, Integral Battery, Safety Controlled	1
156-7366-00	U170 U270 U481 U580	IC, Memory, DRAM, CMOS; 1M X 16	4
156-8036-00	U370	IC, Memory, CMOS, Flash; 1M X 16	1

671-4535-00 – Probe Flash Adapter Board

Part Number	Reference designator	Description	Qty
156-8036-00	U100	IC, Memory; CMOS, Flash; 2M X 8	1

MEMORY PARTS – TLA7N1

671-4214-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7138-00	U0630 U0640 U0650 U0660 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U631 U641 U651 U661 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 1M X 16, SYNC DRAM	24

MEMORY PARTS – TLA7N2

671-4215-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7138-00	U0510 U0512 U0520 U0522 U0610 U0620 U0630 U0640 U0650 U0660 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U631 U641 U651 U661 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 1M X 16, SYNC DRAM	32

MEMORY PARTS – TLA7N3

671-4216-01 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7138-00	U0510 U0512 U0520 U0522 U0610 U0620 U0630 U0640 U0650 U0660 U0710 U0713 U0720 U0723 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U631 U641 U651 U661 U711 U712 U721 U722 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 1M X 16, SYNC DRAM	40

MEMORY PARTS – TLA7N4

671-4239-00 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7138-00	U0510 U0512 U0520 U0522 U0570 U0572 U0580 U0582 U0610 U0620 U0630 U0640 U0650 U0660 U0670 U0680 U0710 U0713 U0720 U0723 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U571 U581 U631 U641 U651 U661 U711 U712 U721 U722 U771 U772 U781 U782	IC, CMOS, SDRAM, 1MEG X 16	48

MEMORY PARTS – TLA7P2, TLA7P4, TLA7Q2, TLA7Q4

671-4252-00 – LPU Board

Part Number	Reference designator	Description	Qty
156-3870-00	U260	IC, Memory, CMOS, NVRAM; 32K X 8, Integral Battery, Safety Controlled	1
156-7366-00	U170 U270 U481 U580	IC, Memory, DRAM, CMOS; 1MEG X 16	4
156-8036-00	U370	IC, Memory, CMOS, Flash; 2M X 8	1

671-4535-00 – Probe Flash Adapter Board

Part Number	Reference designator	Description	Qty
156-8036-00	U100	IC, Memory; CMOS, Flash; 2M X 8	1

MEMORY PARTS – TLA7P2

671-4238-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7883-00	U0510 U0512 U0520 U0522 U0610 U0620 U0630 U0640 U0650 U0660 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U631 U641 U651 U661 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 4MEG X 16	32

MEMORY PARTS – TLA7P4

671-4239-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-7883-00	U0510 U0512 U0520 U0522 U0570 U0572 U0580 U0582 U0610 U0620 U0630 U0640 U0650 U0660 U0670 U0680 U0710 U0713 U0720 U0723 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U571 U581 U631 U641 U651 U661 U711 U712 U721 U722 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 4MEG X 16	48

MEMORY PARTS – TLA7Q2

671-5332-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-8978-00	U0510 U0512 U0520 U0522 U0610 U0620 U0630 U0640 U0650 U0660 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U631 U641 U651 U661 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 4M X 16BIT X 4 Banks, 64M	32

MEMORY PARTS – TLA7Q4

671-5282-02 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-8978-00	U0510 U0512 U0520 U0522 U0570 U0572 U0580 U0582 U0610 U0620 U0630 U0640 U0650 U0660 U0670 U0680 U0710 U0713 U0720 U0723 U0730 U0731 U0740 U0741 U0750 U0751 U0760 U0761 U0770 U0773 U0780 U0783 U511 U521 U571 U581 U631 U641 U651 U661 U711 U712 U721 U722 U771 U772 U781 U782	IC, Memory; CMOS, SDRAM; 4M X 16BIT X 4 Banks, 64M	48

MEMORY PARTS – TLA7XM

671-3982-03 – Enhanced Monitor Board

Part Number	Reference designator	Description	Qty
156-5209-00	U24	IC, Memory; CMOS, EPROM, 64K X 16	1
156-6421-01	U29 U31 U32 U34	IC, Memory; CMOS, DRAM, 1MEG X 4	4
156-6461-01	U22 U25	IC, Memory; CMOS, Flash; 256K X 8	2
156-6510-01	U1	IC, Memory; CMOS, EEPROM; 1K X 8	1
156-4522-00	U44	IC, Memory; CMOS, PROM	1

MEMORY PARTS – TLA7PG2

671-5063-50 – A20 Board

Part Number	Reference designator	Description
156-6751-01	U190	IC, Memory; CMOS, Serial, EPROM, 2048 X 8, 24C16N, SO8.150
156-M665-00	U1022	IC, Memory; CMOS, EPROM; 512K X 8, Flash, 90NS; 29F040-90, PLCC32
160-M317-00	U1024	IC, Memory; CMOS, EPROM; 256K X 16, 120NS; PRGM; 156-M492-00
156-M665-00	U1025	IC, Memory; CMOS, EPROM; 512K X 8, Flash, 90NS; 29F040-90, PLCC32
156-M516-00	U1034	IC, Memory; CMOS, DRAM; 1048576 X 4, 70NS; NPD424400LA-70C, SOJ26.300, Tube
156-M516-00	U1035	IC, Memory; CMOS, DRAM; 1048576 X 4, 70NS; NPD424400LA-70C, SOJ26.300, Tube
156-M516-00	U1036	IC, Memory; CMOS, DRAM; 1048576 X 4, 70NS; NPD424400LA-70C, SOJ26.300, Tube
156-M516-00	U1037	IC, Memory; CMOS, DRAM; 1048576 X 4, 70NS; NPD424400LA-70C, SOJ26.300, Tube

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671-4859-50 – A50 Board

Part Number	Reference designator	Description
160-M295-03	U2520	IC, Digital; CMOS, EPROM, 1046496 X 1BIT, EPC1LC20, SMD, PLCC20
156-6751-01	U2530	IC, Memory; CMOS, Serial, EPROM, 2048 X 8, 24C16N, SO8.150
156-N103-00	U200	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U220	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U240	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U500	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U520	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U600	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U620	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U700	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U720	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U800	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U820	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U900	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U920	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1000	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1020	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1100	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1120	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1200	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1220	IC, Memory; CMOS, 256K X 16 BIT, 12NS
156-N103-00	U1300	IC, Memory; CMOS, 256K X 16 BIT, 12NS

MEMORY PARTS – TLA7D1, TLA7D2, TLA7E1, TLA7E2

671-3233-04 – LPU Board

Part Number	Reference designator	Description	Qty
156-4349-00	U70	IC, Memory, CMOS, NVRAM; 512K X 8, w/ Battery, Safety Controlled	1
156-6151-01	U60 U61 U64 U66 U79 U82	IC, Memory, CMOS, SRAM, 128K X 8	6
156-6272-01	U813	IC, Memory, CMOS, EEPROM; 256K X 8 Serial	1
156-6421-01	U67 U71 U74 U81	IC, Memory, CMOS, DRAM; 1MEG X 4	4
156-6869-00	U1 U2 U8 U9	IC, Memory, CMOS, Flash; 512K X 8	4
156-6927-00	U62 U63 U65 U68	IC, Memory, CMOS, DRAM; 1MEG X 16	4
160-9691-01	U11	IC, Memory, CMOS, EPROM; 64K X 16	1

MEMORY PARTS – TLA7D1

671-3846-05 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-6272-01	U1052 U1055	IC, Memory; CMOS, EEPROM; 256K X 8, Serial	2
156-6274-01	U101 U201	IC, Memory; CMOS, SRAM; 32K X 8	2
156-6782-00	U1330 U1430	IC, ASIC; CMOS, Custom; Sampler IC, 16K Memory	2

MEMORY PARTS – TLA7D2

671-3845-05 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-6272-01	U1052 U1055	IC, Memory; CMOS, EEPROM; 256K X 8, Serial	2
156-6274-01	U101 U201 U301 U401	IC, Memory; CMOS, SRAM; 32K X 8	4
156-6782-00	U1130 U1230 U1330 U1430	IC, ASIC; CMOS, Custom; Sampler IC, 16K Memory	4

MEMORY PARTS – TLA7E1

671-3844-05 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-6272-01	U1052 U1055	IC, Memory; CMOS, EEPROM; 256K X 8, Serial	2
156-6274-01	U101 U201	IC, Memory; CMOS, SRAM; 32K X 8	2
156-6782-00	U1330 U1430	IC, ASIC; CMOS, Custom; Sampler IC, 16K Memory	2

MEMORY PARTS – TLA7E2

671-3843-04 – Acquisition Board

Part Number	Reference designator	Description	Qty
156-6272-01	U1052 U1055	IC, Memory; CMOS, EEPROM; 256K X 8, Serial	2
156-6274-01	U101 U201 U301 U401	IC, Memory; CMOS, SRAM; 32K X 8	4
156-6782-00	U1130 U1230 U1330 U1430	IC, ASIC; CMOS, Custom; Sampler IC, 16K Memory	4

If you have any questions, contact the Tektronix Technical Support Center at 1-800-833-9200*3.