



# ETERNA1 Block Diagram

November 1, 2012

## Trademarks

SmartMesh Industrial and Eterna are trademarks of Dust Networks, Inc. The Dust Networks logo, Dust, Dust Networks, and SmartMesh are registered trademarks of Dust Networks, Inc. All third-party brand and product names are the trademarks of their respective owners and are used solely for informational purposes.

## Copyright

This documentation is protected by United States and international copyright and other intellectual and industrial property laws. It is solely owned by Dust Networks, Inc. and its licensors and is distributed under a restrictive license. This product, or any portion thereof, may not be used, copied, modified, reverse assembled, reverse compiled, reverse engineered, distributed, or redistributed in any form by any means without the prior written authorization of Dust Networks, Inc.

RESTRICTED RIGHTS: Use, duplication, or disclosure by the U.S. Government is subject to restrictions of FAR 52.227-14(g) (2)(6/87) and FAR 52.227-19(6/87), or DFAR 252.227-7015 (b)(6/95) and DFAR 227.7202-3(a), and any and all similar and successor legislation and regulation.

## Disclaimer

This documentation is provided "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for a particular purpose.

This documentation might include technical inaccuracies or other errors. Corrections and improvements might be incorporated in new versions of the documentation.

Dust Networks does not assume any liability arising out of the application or use of any products or services and specifically disclaims any and all liability, including without limitation consequential or incidental damages.

Dust Networks products are not designed for use in life support appliances, devices, or other systems where malfunction can reasonably be expected to result in significant personal injury to the user, or as a critical component in any life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness. Dust Networks customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify and hold Dust Networks and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Dust Networks was negligent regarding the design or manufacture of its products.

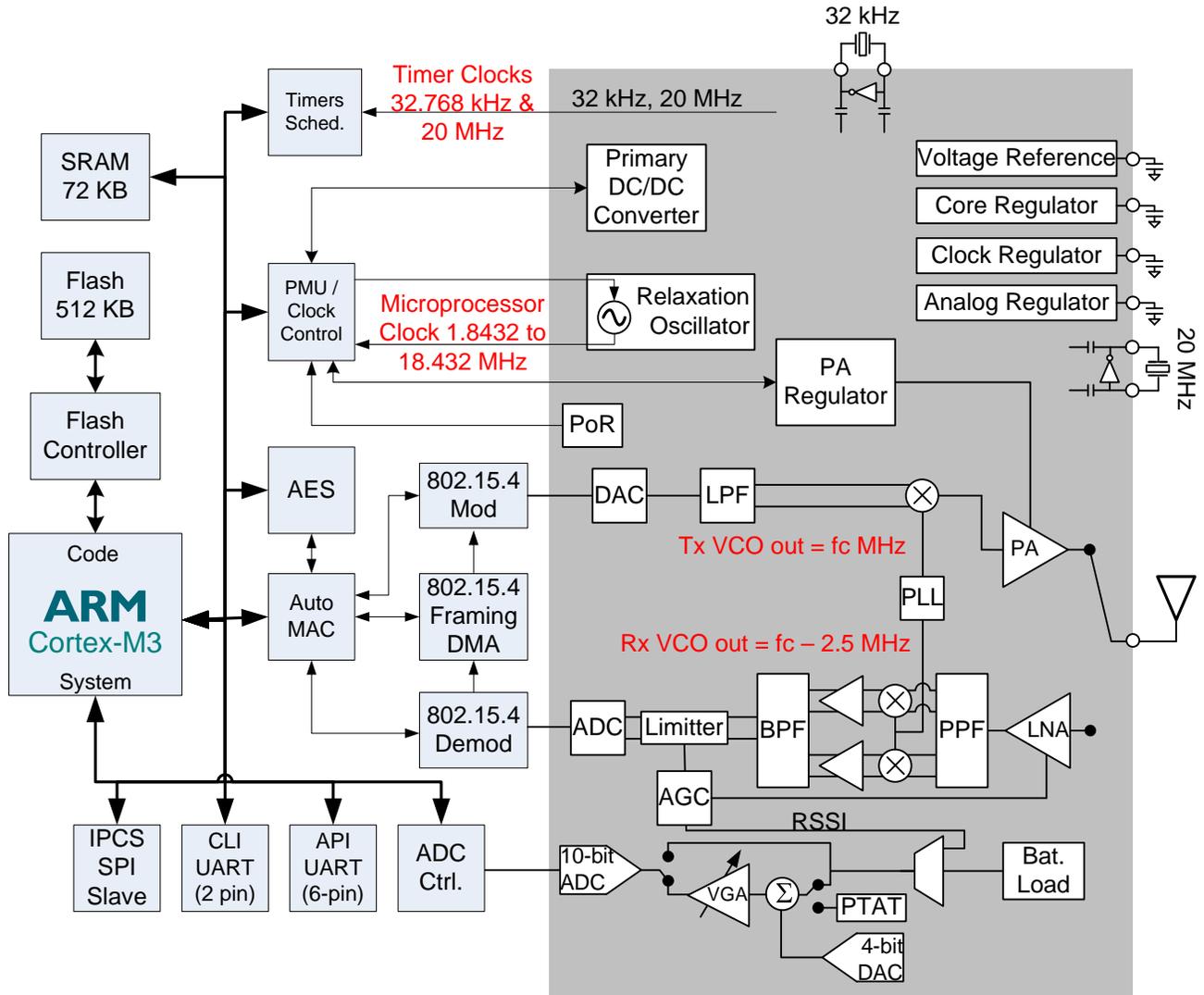
Dust Networks reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products or services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to Dust Network's terms and conditions of sale supplied at the time of order acknowledgment or sale.

Dust Networks does not warrant or represent that any license, either express or implied, is granted under any Dust Networks patent right, copyright, mask work right, or other Dust Networks intellectual property right relating to any combination, machine, or process in which Dust Networks products or services are used. Information published by Dust Networks regarding third-party products or services does not constitute a license from Dust Networks to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from Dust Networks under the patents or other intellectual property of Dust Networks.

Dust Networks, Inc is a wholly owned subsidiary of Linear Technology Corporation.

© Dust Networks, Inc. 2012. All Rights Reserved.

# 1 Block Diagram



Note that  $f_c = 2405 + n \cdot 5$  MHz, where  $n = 0, 1, 2, \dots, 14$ .