



## Mellanox FlexBoot™

Increase Data Center Efficiency with Multiprotocol Remote Boot Technology

### Overview

FlexBoot is a multiprotocol remote boot technology that delivers unprecedented flexibility in how IT Managers can provision or repurpose their datacenter servers. FlexBoot enables remote boot over InfiniBand or Ethernet using Boot over InfiniBand (BoIB), Boot over Ethernet (BoE), or Boot over iSCSI (Bo-iSCSI). Combined with Virtual Protocol Interconnect (VPI) technologies available in ConnectX® and ConnectX®-2 adapters, FlexBoot gives IT Managers the flexibility to deploy servers with one adapter card into InfiniBand or Ethernet networks with the ability to boot from LAN or remote storage targets. This technology is based on the Preboot Execution Environment (PXE) standard specification, and FlexBoot software is based on the open source EtherBoot/gPXE project (see [www.etherboot.org](http://www.etherboot.org)).

### Flexibility for standard based boot options

With FlexBoot the adapter communicates with a DHCP server to obtain its assigned IP address and network parameters. The DHCP server also provides the location of the boot program and instructs FlexBoot to access the operating system through a TFTP server, an iSCSI target, or some other service.

### Command Line Interface (CLI) support

Configuration and management of PXE ports is simplified with a command-line interface. The CLI, invoked after the completion of a server's Power On Self Test (POST) operation, includes the configuration commands for any type of network and specific commands based on port type.

### Mellanox Advantage

Mellanox Technologies is a leading supplier of end-to-end servers and storage connectivity solutions to optimize data center performance and efficiency. Mellanox InfiniBand adapters, switches, and software are powering Fortune 500 data centers and the world's most powerful supercomputers. For the best in server and storage performance and scalability with the lowest TCO, Mellanox interconnect products are the solution.

### BENEFITS

- Simplified boot image and configuration management
- Rapid recovery from server and site failures
- Support boot options from both InfiniBand and Ethernet
- Remote boot support from iSCSI Storage (target) and Ethernet (LAN targets)
- Reduction in Data Center costs

### FEATURE SUMMARY

- Multiprotocol remote boot technology
- Boot over Ethernet (BoE)
- Boot over InfiniBand (BoIB)
- Boot over iSCSI (Bo-iSCSI)
- Simple CLI for easy configuration and management
- Open Standard based - gPXE/Etherboot
- Tools support for ROM image burning

### HARDWARE SUPPORT

- InfiniHost® III Ex
- InfiniHost® III Lx
- ConnectX
- ConnectX EN
- ConnectX-2
- ConnectX-2 EN
- ConnectX-2 ENT



350 Oakmead Parkway, Suite 100, Sunnyvale, CA 94085  
Tel: 408-970-3400 • Fax: 408-970-3403  
[www.mellanox.com](http://www.mellanox.com)

© Copyright 2010. Mellanox Technologies. All rights reserved.  
Mellanox, BridgeX, ConnectX, InfiniBlast, InfiniBridge, InfiniHost, InfiniRISC, InfiniScale, and InfiniPCI are registered trademarks of Mellanox Technologies, Ltd. CORE-Direct, FabricIT, PhyX, and Virtual Protocol Interconnect are trademarks of Mellanox Technologies, Ltd. All other trademarks are property of their respective owners.