



## LogicLoader™

Bootloader/Monitor

LogicLoader™ is a bootloader/monitor program developed by Beacon EmbeddedWorks that initializes an embedded device and is capable of loading both operating systems and applications. In addition, LogicLoader™ provides a full suite of commands for hardware configuration, in-field device management, hardware debug, manufacturing, and test.



Customizable and extendable at the user level, LogicLoader™ is built for multiple processor platforms (ARM, ColdFire, i.MX, SH, XScale), with support for both CompactFlash FAT and YAFFS file systems. LogicLoader™ contains a fully integrated TCP/IP stack—with DHCP and TFTP support—providing network bootstrap support. Greater customization to your specific needs can be achieved through conditional scripting and the ability for LogicLoader™ to drive LCD displays to show custom splash screens, making LogicLoader™ an excellent tool to fast forward your embedded product design.

### Product Features

#### OPERATING SYSTEM (OS) BOOTSTRAP

- Load multiple OSes (Microsoft Windows Embedded CE, Linux, etc.)
- Load an OS from CompactFlash, resident flash array, serial connection, or Ethernet connection
- Fully configure a hardware platform for the OS
- Activate custom software functions to initialize hardware before the OS starts
- Power-on self test capability

#### IN-FIELD DEVICE MANAGEMENT

- Modify boot actions at run-time
- Remote device management eases debugging and upgrading

#### HARDWARE DEBUG

- Link in custom test functions to verify custom hardware
- Use a familiar UNIX-like interface for debugging the device
- Ethernet-based download and debug interface for Windows Embedded CE

#### CUSTOM APPLICATIONS

- Use LogicLoader™ to load, burn, and jump to any custom embedded application

#### MANUFACTURING & TEST

- Add in custom functional test software for your specific device needs
- Take advantage of the fast Ethernet connectivity to reduce manufacturing test time

#### DOWNLOAD FORMATS

- +SREC
- +ELF
- +BIN
- +RAW

#### HIGHLIGHTS

- Ships standard on all Beacon EmbeddedWorks System on Modules
- Conditional scripting
- YAFFS (flash file system)

#### DESIGN RESOURCES

- Technical Support
- Technical Discussion Group
- Sales