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PRODUCT BRIEF

Pigeon Point™ BMR-AVR-AMCm-SK Starter Kit Board Management Starter Kit for AdvancedMC™ Module Management Controllers

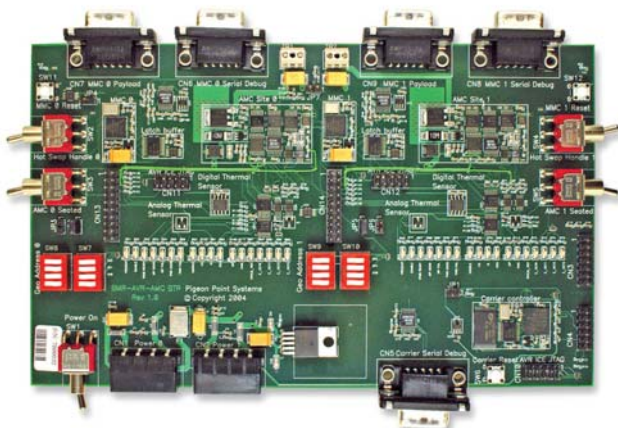
This Pigeon Point Board Management Starter Kit provides everything you need to quickly and cost-effectively develop compliant and interoperable Module Management Controllers (MMCs) for AdvancedMC (AMC) modules. The kit includes:

- Schematics for a complete MMC subsystem, ready for integration/adaptation into the design of your AMC.
- Firmware for that subsystem, delivered in source form and with development tools—ready for simple and quick adaptation to the specific requirements of your product.
- Bench top Shelf Manager, Carrier IPM Controller (Carrier IPMC) and MMC hardware so that you can immediately begin the ramp up process on the IPMI-based management framework of the AdvancedTCA and AdvancedMC specifications, without waiting for your custom hardware.
- One-stop support for hardware, firmware and software used in developing and delivering your Pigeon Point BMR-based MMC.

This reference design defines an MMC for AdvancedMC and is based on AVR® micro controllers from Atmel. Please see the separate *Pigeon Point BMR-AVR-AMCm Product Brief* for more details.

Bench top Carrier IPMC with two MMCs

- Can be cabled together with the bench top Pigeon Point Shelf Manager to form a four-node bench top ATCA/AMC IPMI management network



Software, schematics and documentation delivered via secure website

- Provides specific materials for your company
- Allows instant access to any updated materials that become available



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PARTNER PAGE

Pigeon Point BMR-AVR-AMCm (Module) Release Page

Release Notes and User Guide

- [bmr-avr-amcm-rn.pdf](#) Release Notes
- [bmr-avr-amcm-ug.pdf](#) Users Guide

Pre-Built Images

- [bmr-avr-amcc-avrbtp-bin.tgz](#) Pre-Built Carrier Images for AVR BTP
- [bmr-avr-amcm-avrbtp-bin.tgz](#) Pre-Built Module Images for AVR BTP
- [bmr-avr-amcm-h8sbtp-bin.tgz](#) Pre-Built Module Images for H8 BTP

Documentation

- [bmr-avr-amcm-sa-ts.pdf](#) Software Architecture
- [bmr-avr-amcm-ha-ts.pdf](#) Hardware Architecture (Covers Module portion of BTP)

Design Files

- [bmr-avr-amcm-hwdesign.zip](#) Hardware Design (Module on BTP)

Development

- [bmr-avr-amcm-firmware.tgz](#) Source tar image
- [bmr-avr-amcm-firmware.zip](#) Source tar image
- [bmr-avr-devsoft.iso](#) Development tools
- [SDR and FRU Compilers](#) FRU and SDR Compiler Documentation and images
- [RMCPTA Utility](#) RMCPTA User Guide and images

Technical specifications and User Guide

- *Pigeon Point BMR-AVR-AMCm Hardware Architecture Technical Specification*
- *Pigeon Point BMR-AVR-AMCm Software Architecture Technical Specification*
- *Pigeon Point Board Management Starter Kit User Guide: BMR-AVR-AMCm Edition*

BMR-AVR-AMCm schematics and bill of materials

- Schematics provided in PDF form
- Bill of materials provided as an MS Excel spreadsheet; includes materials for both the core reference design and additional parts used on the bench top reference implementation

Readily adaptable firmware in source code form

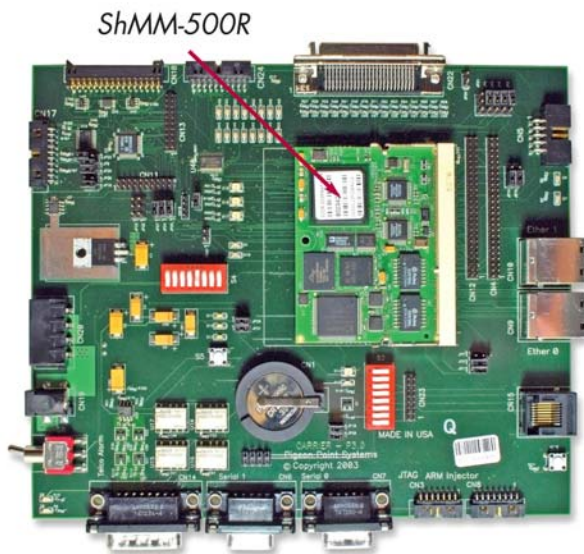
- All mandatory and many optional IPMI/ATCA/AMC commands supported over IPMB-L
- Numerous Pigeon Point extension commands, primarily used over the payload and debug serial interfaces
- Serial interface protocol based on IPMI Terminal Mode
- Payload alert notifications over payload interface for sensor events and receipt of reset/shutdown commands
- Sophisticated support for firmware upgrades in the field
- Simple—but highly flexible—configuration of firmware features

Comprehensive AVR development environment

- Cross GNU C compiler, GNU GDB and binary utilities and optimized libc for AVR architecture
- JTAG-based debugging and firmware download
- Communication utility for Atmel JTAG ICE tool (the latter purchased separately)
- Supported under both Linux and Windows on x86 hosts

Bench top Shelf Manager

- Pigeon Point ShMM-500R Shelf Management Mezzanine with Pigeon Point Shelf Manager pre-installed in Flash (see separate product brief for details)
- BTC-100R Bench Top Carrier provides a socket for the ShMM-500R and on-carrier resources similar to an actual in-shelf ShMM-500R carrier.



Monterey Linux for ShMM-500

- Au1550 Edition of Monterey Linux; key features for Shelf Manager application include:
 - Based on Linux 2.4.x kernel port

- Special support for the AMD Au1550 processor and peripherals
- See www.pigeonpoint.com/Library.html#userdocs for a User Guide to the Au1550 Edition of Monterey Linux.

BMR-AVR-AMCm-SKA Starter Kit Add-on

- Requires a separately licensed Board Management Starter Kit (e.g. BMR-H8S-ATCA-SK for ATCA IPM Controllers)
- Adds BMR-AVR-AMCm specifications, firmware and schematics
- Does not include bench top hardware, which can be purchased separately if needed.

Ordering Information

BMR-AVR-AMCm-SK	Stand-alone Board Management Starter Kit for MMCs
BMR-AVR-AMCm-SKA	Add-on Starter Kit for MMC Development (requires separately purchased stand-alone Board Management Starter Kit)



For more information, visit our website at <http://www.pigeonpoint.com>

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