World-Class Management Components

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PRODUCT BRIEF

Pigeon Point™ BMR-H8S-MCMC-SK Starter Kit

Board Management Starter Kit for MicroTCA™ Carrier Hub Modules

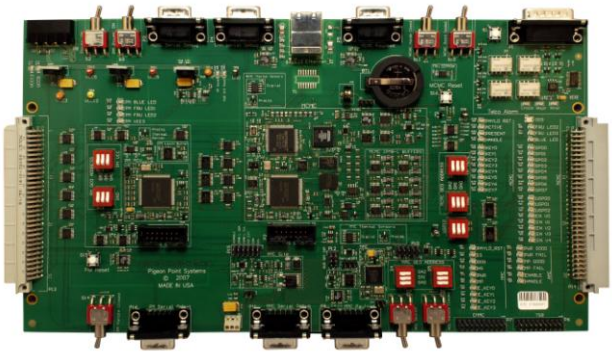
This Pigeon Point Board Management Starter Kit provides everything you need to quickly and cost-effectively develop a compliant and interoperable MicroTCA Carrier Management Controller (MCMC), Carrier Manager and local Shelf Manager for µTCA™. The kit includes:

- Schematics for a complete MCMC subsystem (including the Pigeon Point µCarrier Manager™ and Pigeon Point µShelf Manager™), ready for integration/adaptation into the design of your MicroTCA Carrier Hub (MCH).
- 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 and configurable to execute on a single Renesas H8S/2168 controller.
- Bench top MCMC and supporting hardware so that you can immediately begin the ramp up process on µTCA's IPMI-based management framework, without waiting for your custom hardware.
- One-stop support for hardware, firmware and software used in developing and delivering your Pigeon Point BMR-based MCMC.

The BMR-H8S-MCMC reference design is based on the H8S/2166 micro controller from Renesas Technology. Please see the separate *Pigeon Point BMR-H8S-MCMC Product Brief* for more details.

Bench top MCMC and complementary management controllers

- Implements the BMR-H8S-MCMC reference design and includes the µShelf Manager in binary form on the BMR-H8S-MCMC BTP.
- MCMC BTP also includes an emulated AMC site with a Module Management Controller based on the Pigeon Point BMR-AVR-AMCm reference design to function in the management role of an AMC installed in the MicroTCA Carrier.
- MCMC BTP also includes a minimal emulated Power Module Enhanced Module Management Controller EMMC) for bench top use.
- Can be cabled together with an optional bench top Pigeon Point AMC Test Board to allow an arbitrary user-supplied AMC module to be included in the configuration.
- Bench top boards provide rich collection of headers, switches and connectors for experimentation in the lab with µTCA management controller hardware and firmware operation.



Technical specifications and User Guide

- *Pigeon Point BMR-H8S-MCMC Hardware Architecture Technical Specification*
- *Pigeon Point BMR-H8S-MCMC Software Architecture Technical Specification*
- *Pigeon Point Board Management Starter Kit User Guide: BMR-H8S-MCMC Edition*

BMR-H8S-MCMC schematics and bill of materials

- Schematics provided in PDF form
- Bill of materials includes components 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/µTCA commands
- Numerous PPS extension commands, primarily used over the payload and debug serial interfaces
- Sophisticated support for firmware upgrades in the field
- Simple—but highly flexible—configuration of firmware features

Software, schematics and documentation delivered via secure partner page

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

BMR-H8S-MCMC Release Page

Documentation

bmr-h8s-mcmc-rn.pdf	Release Notes
bmr-h8s-mcmc-sa-ts.pdf	Software Architecture
bmr-h8s-mcmc-ha-ts.pdf	Hardware Architecture
bmr-h8s-mcmc-ug.pdf	User Guide

Hardware Design Materials

bmr-h8s-mcmc.zip	Hardware Design Files.
bmr-h8s-mcmc-cpld.zip	CPLD Source Code

Utilities and Images

SDR/FRU Compilers Page	SDR and FRU compilers

Development Environment

bmr-h8s-devsoft-linux.tgz	Linux Development environment
bmr-h8s-devsoft-win.zip	Windows Development environment
hew.txt	KPIT GNU Tools and HEW integration note.

Source Code

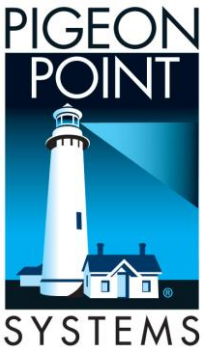
bmr-h8s-mcmc-firmware.zip	BMR Firmware in zip format
bmr-h8s-mcmc-sample.zip	Sample configuration in zip format
bmr-h8s-mcmc-firmware.tgz	BMR Firmware in tgz format
bmr-h8s-mcmc-sample.tgz	Sample configuration in tgz format

Comprehensive H8S development environment

- Cross GNU C compiler and binary utilities for H8S architecture
- JTAG-based debugging and firmware download
- Communication utility for Renesas JTAG emulator tool (purchased separately)
- Firmware download via H8S SCI_1 serial port using supplied utility provides alternative to Renesas JTAG tool

Ordering information

BMR-H8S-MCMC-SK	Stand-alone Board Management Starter Kit for µTCA MCHs
BMR-H8S-MCMC-SKA	Board Management Starter Kit Add-on for µTCA MCHs (purchased as an alternative to BMR-H8S-MCMC-SK if another stand-alone µTCA Board Management Starter Kit has already been licensed)
BMR-H8S-MCMC-BT	Bench top implementation of BMR-H8S-MCMC reference design



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

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