



## Pigeon Point™ BMR-H8S-MCMC-SK Starter Kit Board Management Starter Kit for MicroTCA™ Carrier Hub Modules

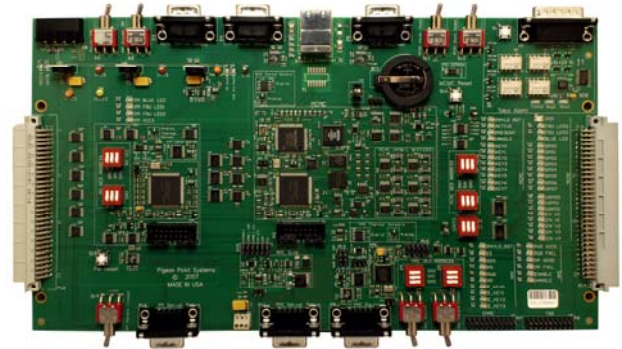
This Pigeon Point Board Management Starter Kit provides everything you need to quickly and cost-effectively develop a compliant and interoperable MicroTCA Carrier Management Controller (MCMC), Carrier Manager and local Shelf Manager for  $\mu$ TCA™. The kit includes:

- Schematics for a complete MCMC subsystem (including the Pigeon Point  $\mu$ Carrier Manager™ and Pigeon Point  $\mu$ Shelf 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  $\mu$ TCA'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  $\mu$ Shelf 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  $\mu$ TCA 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/ $\mu$ TCA 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



World-Class Management Components  
FOCUSED. DEPENDABLE. PROVEN.

PARTNER PAGE

### BMR-H8S-MCMC Release Page

#### Documentation

[bmr-h8s-mcmc-rn.pdf](#)  
[bmr-h8s-mcmc-sa-ts.pdf](#)  
[bmr-h8s-mcmc-ha-ts.pdf](#)  
[bmr-h8s-mcmc-ug.pdf](#)

Release Notes  
Software Architecture  
Hardware Architecture  
User Guide

#### Hardware Design Materials

[bmr-h8s-mcmc.zip](#)  
[bmr-h8s-mcmc-cpld.zip](#)

Hardware Design Files.  
CPLD Source Code

#### Utilities and Images

[SDR/FRU Compilers Page](#)

SDR and FRU compilers

#### Development Environment

[bmr-h8s-devsoft-linux.tgz](#)  
[bmr-h8s-devsoft-win.zip](#)  
[hew.txt](#)

Linux Development environment  
Windows Development environment  
KPIT GNU Tools and HEW integration note.

#### Source Code

[bmr-h8s-mcmc-firmware.zip](#)  
[bmr-h8s-mcmc-sample.zip](#)  
[bmr-h8s-mcmc-firmware.tgz](#)  
[bmr-h8s-mcmc-sample.tgz](#)

BMR Firmware in zip format  
Sample configuration in zip format  
BMR Firmware in tgz format  
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 $\mu$ TCA MCHs
BMR-H8S-MCMC-SKA	Board Management Starter Kit Add-on for $\mu$ TCA MCHs (purchased as an alternative to BMR-H8S-MCMC-SK if another stand-alone $\mu$ TCA 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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