



Remote KVM access on a single, embedded chip

OPMA M3-G4

Raritan OPMA M3-G4 daughtercards offer high quality platform management with KVM-over-IP, virtual media and IPMI 2.0 support.

Give your customers full access and control of their servers with our OPMA-compliant subsystem.

Now your customers can enjoy a full range of platform control with our KIRA™100 single chip-based OPMA M3-G4 Module. With OPMA M3-G4-equipped servers, your customers will have both graphic console redirection (KVM) and power on/off capabilities, as well as unrestricted access to their systems – at anytime – from any internet-capable workplace in the world. Our OPMA module's integrated BMC (Board Management Controller) allows users to collect data from the motherboard sensors and take an active role in controlling the motherboard's fans and actors. And because it's embedded on the motherboard, the OPMA M3-G4 provides maximum stability and availability, while remaining independent of the status of the server's operating system.

Raritan OPMA M3-G4 daughtercards offer high quality platform management with KVM-over-IP, virtual media and IPMI 2.0 support. They also include open APIs (Application Programmer Interface) to help leading server OEMs, motherboard manufacturers and KVM vendors enable their enterprise management software solutions to communicate with OPMA-based solutions, simply and easily.

OPMA M3-G4 Technical Data

- ▶ KIRA100 (Single Chip KVM-over-IP + IPMI processor)
- ▶ 32 MB SDRAM, 8 MB Flash or optional 64MB SDRAM and 32MB Flash
- ▶ Digital Video Input standard (DVI1.0 1600x1200)
- ▶ USB 2.0 High Speed Interface
- ▶ IPMI Interfaces (LPC, PWM/TACHO, GPIO)
- ▶ 10/100 Mbps Ethernet Interface for direct RJ45 connection
- ▶ Module based on a low cost DDR SO-DIMM 200 JEDEC form factor
- ▶ Low single 3.3V power consumption (approx 3.5 W)
- ▶ Size (LxWxH): 70 x 67.6 x 9mm

OPMA M3-G4 Security Features

- ▶ SSLv3/TLSv1 encryption of all data with up to 256 bit
- ▶ Support of SSL certificate management
- ▶ Logging of all important events
- ▶ Up to 150 user profiles separately definable with individual rights

OPMA M3-G4 Software Development Kit

- ▶ SDK - OEMIZER for GUI modification
- ▶ SDK - Reference design (Gerber, Schematics, BOM) for integration
- ▶ Full-featured SDK with Source/binary code available

OPMA (Open Platform Management Architecture) suggests different usage cases of daughterboards fitting into a commonly used SO DIM 200 connector.

- ▶ Entry level IPMI 1.5 based BMC only
- ▶ IPMI 2.0 ready BMC functions
- ▶ BMC + KVM redirection

The main goals of the OPMA specification are to:

- ▶ standardize the server management subsystem hardware interface architecture using a modular approach while continuing to allow intelligent innovation in management subsystems
- ▶ reduce platform development risk, cost, and time to market
- ▶ broaden motherboard applicability
- ▶ enable the evolution of manageability subsystem hardware into a COTS (commercial off the shelf) model that supports various tiers of capability/price
- ▶ assist OEMs in moving to an outsourcing model for server design by enabling a multi-vendor approach for supplying the manageability subsystem. Give OEMs a build or buy decision that is not available today
- ▶ increase customer satisfaction by providing more customer flexibility and choice at a reduced cost
- ▶ enable cost reductions obtained by using COTS devices to drive enhanced manageability into markets that could not previously afford it
- ▶ enable management subsystem infrastructure competition by providing a level playing field
- ▶ free up the PCI slot commonly used for Remote Management Cards while increasing performance of the remote graphics console

OPMA was initiated by AMD and is supported among others by Raritan http://www.amd.com/us-en/assets/content_type/utilities/32200-OPMA_Spec.pdf

When you're ready to take control, do it with Raritan's OPMA.

Call +31-10-2844040 or visit Raritan.info

Raritan is a leading provider of products for managing IT equipment and the mission-critical applications and services that run on it. Raritan's highly reliable and responsive IT management solutions – based on KVM (Keyboard, Video, Mouse) switches, serial console servers, management software and remote connectivity products – enable companies to proactively monitor and manage system health and vulnerability, as well as troubleshoot, access and repair faults from anywhere, at anytime. This simplifies and accelerates data center work processes – improving service uptime and staff productivity. Raritan's solutions are used to manage more than 50.000 data centers and other IT sites around the world. Raritan also serves the OEM market by developing advanced, hardware-based, remote-management components based on digital KVM-over-IP and IPMI technology. Founded in 1985, Raritan is celebrating over 20 years of technical innovation. Raritan has 36 offices worldwide, and its products are distributed in 76 countries. The European headquarters is located in the Netherlands. More information on the company is available at Raritan.info

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