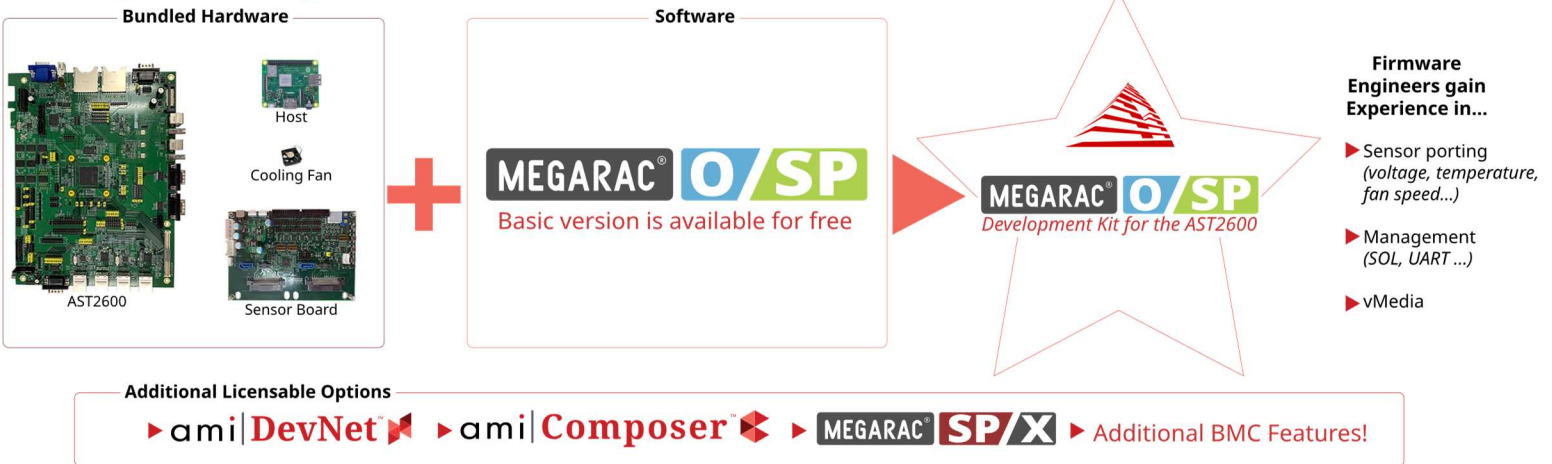


MEGARAC® O/SP

Development Kit for the AST2600



Bundled Hardware

- AST2600 EVB with Power Adapter
- AMI Sensor Board
- Host System
- Fan

Tutorials

- Firmware & AMI DevNet™ Installation and Environment Preparation
- Projects to gain development experience

OEM/ODM Provided

- USB Driver (SD, USB flash for virtual media)
- Ethernet, Serial and/or Display Cable(s)

The MegaRAC® OSP Development Kit for the AST2600 BMC features hardware, tutorials, and access to MegaRAC OSP Open BMC firmware to help developers and engineers gain experience in sensor porting, management technologies such as Serial over LAN (SOL) and UART, and virtual media (vMedia). This kit allows customers to begin immediate development and training projects using the MegaRAC OSP BMC Firmware with the AST2600 BMC from ASPEED Technology.

MegaRAC OSP Firmware

MegaRAC OSP is a hardened, production version based on OpenBMC firmware. MegaRAC OSP can be enhanced with proprietary AMI IP packages based on the proven MegaRAC SP-X Service Processor firmware stack, trusted for years by leading OEMs and ODMs for its robust, secure remote server management. MegaRAC OSP features an intuitive, extensible open-architecture development framework.

Key to its flexibility is a robust "common core" concept that delivers a highly managed source base with high ROI, and a complete Service Processor Solution for wide product deployments. MegaRAC OSP includes dedicated support, code patches and security advisories that all AMI customers trust and expect.

MegaRAC OSP encompasses a family of blended Firmware / Software, Tools & Utilities and Services:

MegaRAC OSP FW/SW Solutions

- Server Baseboard Management Controller (BMC)
- Enclosure (Chassis or Rack Manager) BMC
- Essential licensable IP modules to provide complete manageability
- Full-featured AMI DevNet development environment, which offers distinct advantages and benefits for FW enhancement

MegaRAC OSP Services

- Fee-based services for complete development and delivery of the product
- Turnkey and Engineering (NRE) Services, including BMC feature design and customization
- Hardware Platform Porting
- Quality Assurance (QA) & Security Analysis Services

Supported Platform

- Microsoft® Project Olympus platform
- Intel® Server System ("Wolfpass") CRB

MegaRAC OSP firmware supports a number of Customer Reference Board (CRB) designs, with new platform support being added on a periodic basis.

For more information please visit the request form at ami.com/ospkit



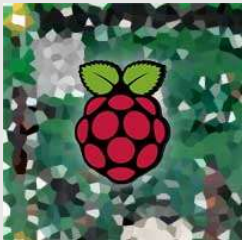
Bundled Hardware

AST2600 EVB



AST2600 Remote Management Server Processor

Host



Raspberry Pi™

Raspberry Pi™ is a trademark of the Raspberry Pi Foundation in the US and other countries.

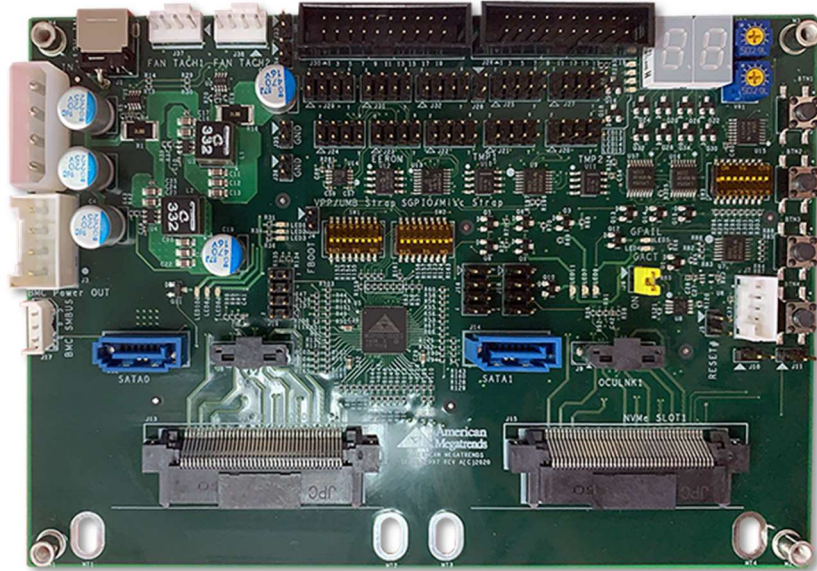
Fan



Cooling Fan

AMI Sensor Board

The series 997 Sensor Board is designed to mimic the sensors that are typically found on data center server platforms. This allows ODM and OEM customers to begin immediate development using the MegaRAC OSP BMC firmware with the AST2600 BMC. Firmware engineers gain hands-on experience with sensor porting, management via Serial Over LAN, management via UART and with vMedia.



- 2x Current/voltage sensors (INA219A) for 12V and 5V DC power monitoring
- 2x drive facing connectors for NVMe/SAS/SATA (SFF-8639 U.2 Slot; U.3 compatible)
- 2x host facing connectors for U.2/U.3 NVMe (x4 OCulink)
- 2x host facing connectors for SATA/SAS (std 7-pin SATA)
- 1x Backplane Controller (AMI MG9100) UBM/VPP/SGPIO host protocol for drive, LED and BMC management
- 1x NVMe I²C management interface (accessible via pin header)
- 1x 2-channel I²C MUX with Interrupt (PCA9543A)
- 2x temperature sensors (TM75AID)
- 1x 16K bit EEPROM (24LC16B)
- 1x 2-to-1 I²C master demultiplexer with an arbiter function (PCA9641)
- 1x I²C repeater (PCA9617)
- 1x Parallel-in/serial-out (74LV165A) with 8 position DIP switch
- 2x Serial-in/parallel-out (74LV595A) with 7 segment LED display
- 2x potentiometers for +12V, +5V voltage monitoring (to BMC ADC input)
- 1x 2-channel +12V DC FAN control (PWM)/monitoring(TACHO)
- Signals are available via pin headers for composing desired I²C topologies
- 4 GPIO controlled LEDs
- 4 digital inputs via 4 tactile switches

MG9100 can be configured via DIP Switches to serve multiple backplane applications

For more information please visit the request form at ami.com/ospkit



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