Secure Server Management for Edge Infrastructure

Edge SCM

The Edge SCM is a compact secure management module integrating Aspeed AST2600 and AST1060 controllers with PFR, Secure Boot, Root of Trust and TPM support. It provides host interfaces, remote management, monitoring, power/reset/watchdog control and secure firmware update capabilities for edge servers and network infrastructure.

Architecture
Compact Edge SCM architecture provides secure management and control for edge servers, switches, routers and embedded infrastructure

BMC
Aspeed AST2600 BMC provides remote management, monitoring and platform control

Security IC
Aspeed AST1060 provides dedicated security processing and firmware protection functions

PFR
Platform Firmware Resilience (PFR) helps protect critical firmware and supports secure recovery

Secure Boot
Secure Boot and Root of Trust provide a hardware-based foundation for trusted platform operation

TPM
TPM 2.0 provides hardware-backed security for authentication, key protection and trusted computing

Host I/F
PCIe, eSPI, I²C, UART and SGPIO interfaces support integration with host processors and platform devices

Firmware
BMC and BIOS firmware storage together with CPLD control support system lifecycle management

Management
IPMI 2.0 and Redfish-oriented capabilities support remote administration and management integration

Applications
Designed for edge servers, switches and embedded platforms

Technical Specifications

Secure Control Module	
Model Name	Edge Secure Control Module
Model Number	Edge SCM
Processor	BMC Controller: Aspeed AST2600 Security Controller: Aspeed AST1060
Memory	Platform dependent
Storage	BIOS / BMC Flash
Network Interfaces	1G management interface
I/O / Management	PCIe / eSPI / I2C / UART / SGPIO; USB-C / Mini-DP / UART on IO board
Expansion / Architecture	E-SCM board + IO board
Management / Software	IPMI 2.0 / Redfish
Security	PFR; Secure Boot; Root of Trust; TPM 2.0
Power	Platform dependent
Cooling	Platform dependent
Environmental	Platform dependent
Mechanical (W x D x H)	30.5 x 130 mm
Compliance	Platform dependent
Primary Applications	Edge servers; switches; industrial / embedded

Hardware Overview

Edge SCM (Edge Secure Control Module)

Senao Networks

Product specifications, configurations, certifications, and availability are subject to change without notice and may vary by region and customer program. Final commitments are governed by the applicable quotation, statement of work, or executed agreement.