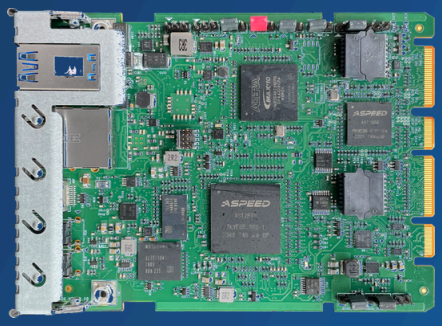
Secure, Modular Control for Next-Generation Servers

DC-SCM

The DC-SCM is an OCP DC-SCM 2.1 platform module for secure and modular server management. Integrated BMC, security processing, firmware storage, PFR-oriented security and TPM capabilities provide a foundation for remote management, firmware protection, power/reset control and secure server lifecycle operations.



Architecture
OCP DC-SCM 2.1 architecture provides a modular approach to server management and security

Root of Trust
TPM and Root-of-Trust-oriented capabilities support trusted platform operation and secure lifecycle management

Controllers
Dedicated management and security controllers separate platform management functions from the main server processing architecture

Remote Management
Remote management functions include system monitoring, power control, reset and watchdog operations

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

Firmware
Separate BMC and BIOS firmware storage supports independent update workflows

Security IC
Aspeed AST1060 supports the platform security architecture and hardware-based protection mechanisms

Applications
Designed for next-generation server platforms requiring secure management and firmware protection. Suitable for data center, enterprise and OCP-aligned server platforms

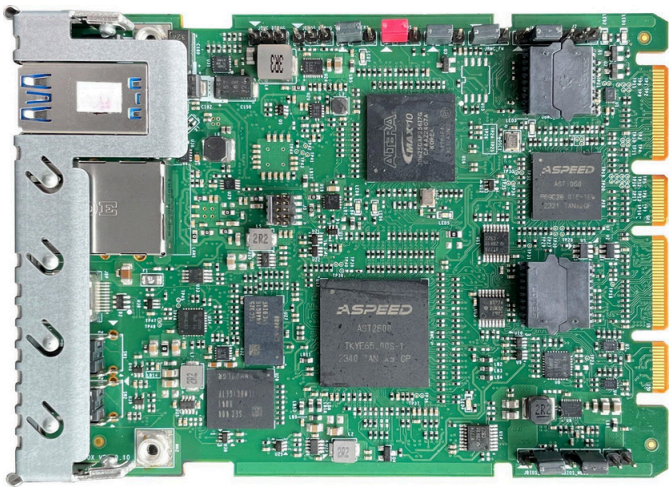
PFR
Platform Firmware Resilience (PFR) provides a foundation for protecting critical firmware and improving recovery

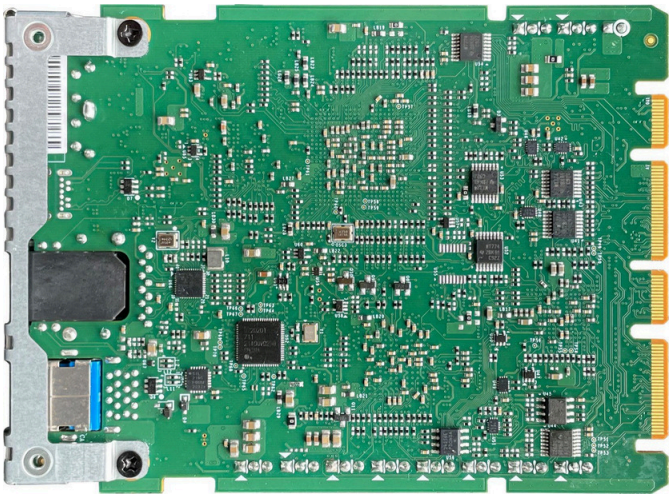
Technical Specifications

Secure Control Module	
Model Name	OCP Data Center Secure Control Module
Model Number	DC-SCM
Processor	BMC Controller: Aspeed AST2600 Security Controller: Aspeed AST1060
Memory	Platform dependent
Storage	BMC / BIOS Flash
Network Interfaces	1G management interface
I/O / Management	Power / Reset; BMC management
Expansion / Architecture	DC-SCM 2.1 modular architecture
Management / Software	BMC / IPMI / Redfish-oriented management
Security	PFR; TPM 2.0; RoT-oriented architecture
Power	Platform dependent
Cooling	Platform dependent
Environmental	Platform dependent
Mechanical (W x D x H)	120 x 90 mm
Compliance	Platform dependent
Primary Applications	OCP data center servers; secure server lifecycle management

Hardware Overview

DC-SCM (OCP Data Center Secure Control Module)





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