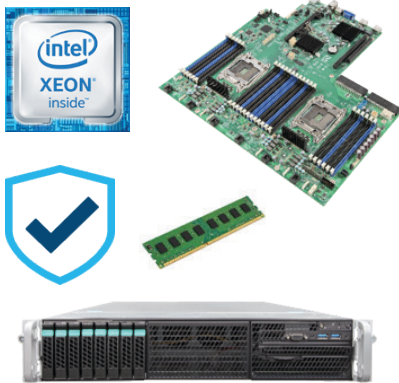




Intel® Data Center Block with Firmware Resilience

Making it Easier to Deliver Competitive and Secure¹ Servers for Critical Infrastructure, Government and Financial industries



Intel® Data Center Block with Firmware Resilience

- **Protects, detects and corrects against attacks** on critical components below the operating system
- **Fully validated server block** saves time and money, freeing up resources to focus on value add and competitive differentiation
- **Unbranded systems** enable resellers to customize and brand to meet end user requirements
- **Intel quality and reliability** with world-class integration, validation, certification and support
- **Standard Intel 3-year warranty**, with the option to extend parts of coverage to 5 years, ensures customer satisfaction

As the intensity, sophistication, and disruptive impact of security attacks continue to escalate, security IT officers are driving for a holistic approach to protect their critical infrastructure. This includes protecting the server all the way down to the firmware at the lowest layers of the platform, where threats are most difficult to detect. While technologies exist to protect the higher layers of the infrastructure stack, system IT users increasingly need assurance that the underlying platform launching these security technologies can be trusted.

To address this, Intel has developed the Intel® Data Center Block with Firmware Resilience (Intel® DCB with Firmware Resilience). Featuring Intel® Platform Firmware Resilience (Intel® PFR) technology, these systems enable platform security starting at the factory floor and maintained through power-on, system boot, OS load, and beyond¹. With this offering, customers can protect firmware from being intercepted, detect firmware corruption, and automatically restore a system to a known good state if malware is detected. This capability to mitigate firmware corruption is an important industry innovation, and provides an optimal solution for security-sensitive organizations including government, financial institutions, and those responsible for critical infrastructures.

Intel is simplifying adoption of this technology through fully-validated, configure-to-order systems featuring Intel® Xeon® E5-2600 v4 processors, Intel® Server Boards, Intel® Server Chassis, third-party memory, and multiple upgrade options to provide a solution that customers can deploy quickly and with confidence.

Intel Built for Quality, Reliability and Value

Designed for government, financial and critical infrastructure needs

The Intel DCB with Firmware Resilience is designed with security-sensitive users in mind, featuring a 2U rack optimized system configuration combined with hardware-enhanced security features for critical infrastructure, government and financial customers. To make server management easier and more efficient, this product includes utilities to simplify the provisioning of security features and securely¹ update firmware components remotely across an entire rack. The system also includes a dedicated management port to enable secure¹, anywhere-access from any device.

Optimized for Security with the Intel® Xeon® processor E5 family

The Intel DCB with Firmware Resilience supports three Intel Xeon processor E5-2600 v4 family versions enhanced to support Intel PFR. These processors anchor the root of trust at the lowest levels of the platform. Together with a security-specific ASIC and authenticated code modules, Intel PFR guards the platform through a processor-directed secure boot mechanism to authenticate firmware and, if necessary, restore firmware images.

Intel® DCB with Firmware Resilience— Providing a Trusted Foundation

Fully integrated and validated 2U rack server block featuring the latest Intel data center technology and optimized for security-sensitive customers.

Features:

- **Intel® Platform Firmware Resilience (Intel® PFR)** protects critical firmware during boot and runtime attacks. In the case malware is detected, Intel PFR will perform a recovery to a gold image.
- **Protect-in-transit feature of Intel® PFR** allows customers to lock and unlock systems while in transit, protecting firmware from changes during shipment.
- **Intel® Transparent Supply Chain with Platform Certificate** creates transparency in the supply chain to prevent counterfeit components from being used.
- **Intel® Trusted Execution Technology with TPM** enables attestation of the authenticity of the UEFI Firmware and its operating system.
- **Deployment Flexibility:** Choose from one of three security-optimized processors and multiple upgrade options to design a system that meets your unique needs.

Upgrade Options:

- Intel® Integrated RAID Module options
- Intel® I/O Expansion Module options
- Intel® SSD drives
- Memory
- RFID Antenna cable for protect-in-transit feature

Smart Boards Ensure System Stability and Increased Uptime

Intel® Server Boards have more than 100 sensors built in that monitor all critical functions and use management capabilities to automatically flag problems before they impact business operations. Event logs and light-guided diagnostics also assist in rapid identification and remediation of issues.

Intel Warranty Delivers Value and Confidence

The Intel Data Center Block with Firmware Resilience comes with a standard three-year warranty that includes the option to extend coverage to five years. Warranties come with Intel's 24/7 technical support and commitment to replace or refund any product that fails. Additionally, since all components are purchased in a single SKU, there is a single source for all support needs.

Engage with Intel Today

Intel continuously delivers leading-edge technologies to help you innovate and differentiate in the market. This is true with the Intel Data Center Block with Firmware Resilience, designed to help you realize an easier path to reliable and secure¹ server solutions.

Contact your Intel sales representative or Intel authorized distributor for any inquiries.

More information can be found at <https://www.intel.com/content/www/us/en/data-center-blocks/business/business-blocks.html>.



Intel® Data Center Block with Firmware Resilience

PRODUCT OVERVIEW	COMPONENT	DESCRIPTION
<p>Configure a system designed for your needs.</p> <p>Choose from three security-optimized processors and a variety of upgrade options.</p>	Chassis	Intel 2U chassis with hot-swappable 8 x 2.5" drive trays, 1100W PSU
	Board	Intel® Server Board S2600WTTTCR
	Processor	Intel® Xeon® processor E5-2680Rv4 (35M Cache, 2.40 GHz, 14 core) Intel® Xeon® processor E5-2697Rv4 (45M Cache, 2.30 GHz, 18 core) Intel® Xeon® processor E5-2698Rv4 (50M Cache, 2.20 GHz, 20 core)
	Memory	16GB included with option for up to 1.54TB; 1600/1866/2133/2400MHZ, DDR4, UDIMM
	Storage (optional)	Up to 8 x Intel® SSD DC S3520 Series
	Adv. Remote Management	Intel® Remote Management Module 4 Lite 2 (AXXRMM4LITE2) included down on-board
	Security	TPM 2.0 included down on-board
	Accessories (optional)	RFID Antenna cable for protect-in-transit feature

SERVER SYSTEM SPECIFICATIONS	
Form Factor	2U
Chassis Dimensions	16.93" x 27.95" x 3.44"
Server Board	Intel® Server Board S2600WTTTCR
Server Board Form Factor	Custom 16.7" x 17"
Storage	8 x 2.5" hot-swap drive bays
Cooling	6 redundant and hot-swap cooling fans
System Power	1100W Power supply, optional 2nd redundant power supply
Processor Support	Dual select PFR enabled Intel® Xeon® processor – E5-2600Rv4
Processor Socket	Socket R3
Chipset	Intel® C612 chipset
Memory Support	Up to 24 DIMMs, 1.54TB maximum total DDR4 at 2400MT/s maximum
On Board LAN Support	Dual 10GbE
Front Control Panel	Control Buttons – Power/Sleep, System ID, System Reset, NMI LEDs – Power, System Status, System ID, NIC Activity, Drive Activity



EXTERNAL I/O CONNECTORS	
USB	5 x USB
Network Interface	2 x 10GbE
Management Port	Single 1GBase-T dedicated server management port (RJ45)
Video	VGA graphics via BMC (Front and Back DB-15 VGA connectors)

INTERNAL I/O CONNECTORS	
USB	Embedded USB (eUSB) Solid State Drive Option
Serial Port	Two serial ports
SATA	Ten SATA ports Embedded Software SATA RAID Options – Intel® RSTe & Intel® ESRT2
TPM Support	TPM 2.0 down

EXPANSION OPTIONS	
I/O Module Support	Connector for Intel® I/O Expansion Module x8 Gen 3 Connector for Intel® Integrated RAID Module
Expansion Options	7 - PCIe x8 Gen 3 1 - PCIe x4 Gen 2.x

For product specifications visit: ark.intel.com

¹Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

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