

OPALE V2-Server

Rugged high end server system



► Ready for OEM applications

When commercial IT server doesn't fit, multi core OPAL V2 Server, based on long life industrial Extended ATX form factors, offers flexibility to fit into many applications of OEM and System Integrators in a variety of domains: medical imaging, simulation, storage and multimedia telecom, rugged servers for harsh environments...

To precisely meet your requirements, even for small quantities, ECRIN takes full system development responsibility and guarantee long term availability to allow you to concentrate on your added value and core business. From mechanical parts to industrial design, with front and remote user interface, user's LEDs and I/O's, easy customized front and rear connectors fitting your activity, specific face-plate color and design, lexan polycarbonate sheet with your logo and brand name, we will offer you a unique look that will shape your image and promote your sales.

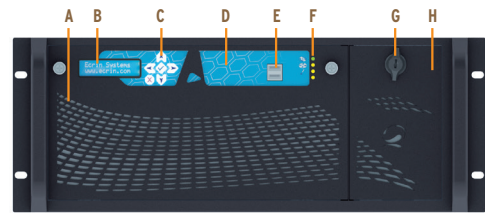
OPAL V2-Server, thanks its one stop pre- and post-sales support, offers a complete solution for control, deployment and management of business critical computer systems. Avoiding system failures with dynamic maintenance intervals, the Embedded Management BMC controller brings professional monitoring capabilities for today's industrial systems.

- Dual socket R LGA2011 Intel® Xeon® Processor E5-2600 v2 family - Ivy Bridge (EN)
- Eight memory sockets support DDR3-1600 REG/ECC or Non-ECC up to 128 GB
- 4 x PCIe x16 Gen3, 1 x PCIe x 8 Gen3 and 1 x PCIe x 4 Gen2
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Local MMI and Remote Active Management to detect errors before they occur
- Reduced TCO with reporting and Log file for downtime in harsh environments
- High reliability design for continuous operation
- High shock and vibration design
- Long life management: up to 7 years with revision control
- OEM services & customization, brand name and I/O flexibility with competition advantage

OPALE V2-Server

Rack specifications

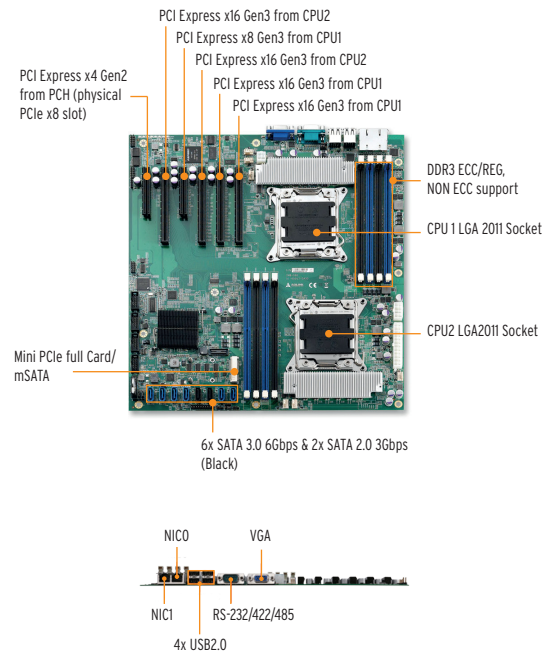
Construction	Anti-corrosion and long term heavy-duty steel, black color
Dimensions (W x H x D)	19" / 4U with 17.8 inch depth (483x177x451mm)
Cooling	Three 92mm ball bearing low noise fans with monitoring Front access for easy maintenance
	Two 60mm ball bearing low noise fans with monitoring on rear panel.
Power supply	PS2 form factor, compliant with Mini Redundant PSU
Drive bays	Two 5 1/4 front accessible drive bay
Motherboards	ATX : 12" x 10" (30.5cm x 25.4cm) Extended ATX: 12" x 13" (30.5cm x 33cm)
Front panel	Front door to access dust filter and fans for easy maintenance Embedded MMI, 4 LEDs with I/O capabilities
Cards lock	Adjustable hold down bar for cards Front holding parts to secure full length I/O cards



A : Dust filter & Fan access door
B : LCD 2x16 characters
C : Keyboard (Power & Reset)
D : Lexan for easy customization
E : 2 x USB (optional)
F : 4 x tri-color LEDs
G : Key lock
H : Drive bay door

SHB specifications

Form factor	Extended ATX: 12" x 13" (30.5cm x 33cm)
Processor	Dual LGA2011 socket - Intel® Xeon E5-2600 v2 Family x10, x8, x6 -core processor options available
Chipset	Intel® C604 Chipset
Memory	Dual-channel DDR3 1600MHz for each CPU, 8x 240-pin DIMM sockets, up to 128GB ECC registered or non-ECC unbuffered DIMM support
Video	BMC AST2300 built-in 128MB VRAM, VGA output up to 1920x1200 resolution @60 Hz
Ethernet	2x GbE (Intel® I210-AT)
Disk	4x SATA 6Gb/s from Marvell 88SE9230 (RAID 0/1/5/10) 2x SATA 6Gb/s ports + 2x SATA 3Gb/s ports from PCH (RAID 0/1/5/10)
USB	8x USB 2.0
Watchdog timer	1-65535 sec software programmable, can generate system reset
Hardware monitor	+12V,+5V,+3.3V, CPU voltage, CPU / motherboard temperature, CPU / system fan speed
IPMI	ASPEED AST2300 BMC IPMI v.2.0 Support - AMI MegaRAC® Web GUI KVM/Media Redirection support. Remote power-cycle, power-down, power-up and reset by NIC1. Serial over LAN (rear I/O COM port)
I/O	Serial port: 1x RS-232, 1x RS-232/422/485 DIO: isolated GPIO 8-bits input, 8-bits output Audio: Realtek ALC262 on DB-Audio2 daughter board (optional)
Expansion Slots	Slot 1 & 2: PCIe x16 Gen3 from CPU1 Slot 3 & 5: PCIe x16 Gen3 from CPU2 Slot 4: PCIe x8 Gen3 from CPU1 Slot 6: PCIe x4 Gen2 from PCH (physical PCIe x8 slot) 1x Mini PCIe full card slot support PCIe Gen2/USB or m-SATA



Environmental Specifications

Temperature	Operating: 0~40°C / Storage: -20~80°C
Humidity	Operating: 10 à 90% non condensing
Shock & vibration	Operating: 15G, 11ms 6 axis (MIL STD 810 F, method. 516.5)- 5~100 Hz 0.8G (MIL STD 810 F, method. 514.5)
CE certification	EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 55024 - SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition

System Monitoring and Management

- > IPMI Support for Intelligent Platform Management Interface v.2.
- > Local control with embedded MMI (Windows services & Linux deamons)
 - FAN control & monitoring
 - Redundant P/S default
 - System & network information
 - Watchdog & elapsed time counter
 - Alarm (fan, Temperature, Redondant P/S), Log file
 - User script launch form menu entry
 - Easy configuration with .TXT file

OEM services

- > Branding user's Lexan - Costless, NRE fees only
 - > Customization :
 - Front panel design
 - Specific I/O on front panel / rear panel
 - Specific H/W configurations
 - Specific S/W functionality
- Call us for more information ...

Standard configuration

Power Supply Unit	2x 800W redundant - High Efficiency 80+ 90 ~ 240 VAC full range / 47~63 Hz 5V@32A, 12V@65A, -12V@0.8A, 3.3V@32A, 5VSB@3.5A
Drives	1 x Slim DVD RW 1 x 2 1/2 SATA Removable Drive Enclosure 1 x 5 1/4 front accessible drive bay free (up to 4x 2.5")
Front I/O (behind door)	2 x USB
Rear I/O	VGA + 2xGbE + 4xUSB 2.0 1x COM (RS-232/422/485)

Options

Processor	- Dual Xeon® E5-2658 v2 (Ten-Core, 2.4 GHz, 25 MB cache, 95W, long life) - Dual Xeon® E5-2648L v2 (Ten-Core, 1.9 GHz, 25 MB cache, 70W, long life) - Dual Xeon® E5-2640 v2 (Eight-Core, 2.0 GHz, 20 MB cache, 95W, long life) - Dual Xeon® E5-2418Lv2 (Six-Core, 2.0 GHz, 15M Cache, 50W TDP, long life)
Memory	DDR3-1600 ECC Registered : 6GB / 12GB / 24GB / 48GB
Disk	- 2 1/2 SATA 7200 RPM Hard Drive (250GB ~ 1TB) - 2 1/2 SAS 10K/15K RPM Hard Drive (300GB ~ 900GB) - SLC & MLC Solid State Drive (32 GB ~ 512 GB)
OS	- Microsoft® Windows Server 2008 R2 64-bit - Windows 7 64-bit - Linux 64-bit

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