OPALE V2-HPEC

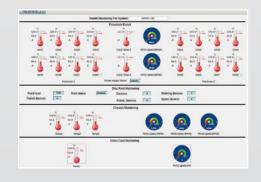
High Performance Embedded Computer for High Energy Physics & Industry

EPICS ready for real-time data acquisition and communication systems

OPALE V2-HPEC series, based on High Performance Embedded Multi-Core / Multi-Thread System Host Board (PICMG 1.3 standard), offers very powerful platform with huge flexibility thanks to 14 PCIe/PCI slots ready to accept full length I/O boards. This reliable industrial computer is targeting control and real-time data acquisition and communication systems.

The Experimental Physics and Industrial Control System (EPICS) integrated software allows the deployment and remote monitoring of networked control systems. OPALE V2-HPEC can be used as plant controller and enable it to be EPICS monitorable and configurable without disturbing the execution at any time. Most of High Energy Physics labs, like DESY, ITER Organisation, CERN, SLAC, MIT, ARGONNE, SACLAY, NASA use this environment, but also large industrial companies, BOEING, US NAVY...

- > High Performance Multi-Core Computing:
 - Úp to 20-Core / 40-Thread with Ivy Bridge-EN New
 - Up to 96Go DDR3-1600 ECC Reg. 3x channels per processor
- PCIe Gen3 Universal Graphic & Server Class
- > Up to 14 full length cards / 451 mm depth only
- > Local and Remote Active Management to detect errors before they occur
- > EPICS driver for remote health monitoring
- CPUs / System Temperatures & Fans
- Redundant PSU / Linux RAID status
- > Reduced TCO and downtime in harsh environments
- > High reliability for continuous operation
- > Long life: up to 10 years by contract
- > Easy customization, brand name and flexibility with competition advantage
- > Made in Europe with CE mark





OPALE V2-HPEC

Construction	Anti-corrosion and long term heavy-duty steel, black color		A B C D	EF GH
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			
Power supply	PS2 form factor, compliant with Mini Redundant PSU			
Drive bays	Two 5,25" front accessible drive bay			
Backplane configuration	14 slots backplane, all for full length I/O boards			EFFERE HAR
Front panel	Front door for dust filter and fans maintenance		A : Dust filter & Fan access door	E : 2 x USB (optional)
Cards lock	Embedded MMI, 4 LEDs with I/O capabilities Adiustable hold down bar for cards		B : LCD 2x16 characters	F : 4 x tri-color LEDs
calus lock	Front holding parts for full length CPU and I/O boards	5	C : Keyboard (Power & Reset) D : Lexan for easy customization	G : Key lock H : Drive bay door
SHB specifications				
Form factor	PICMG 1.3 - Universal Graphic Class / Server Class			
Processor	Dual LGA1356 socket - Intel® Xeon E5-2400 Series x8, x6 and x4-core processor options available			
Chipset	Intel® C604 Chipset (Patsburg-B)		 10, 8, 6-Core Intel[®] Xeon[®] Processor Six Channel DDR3 with Integrated Memory Controller Up to DDR3-1600 s 	Memory Interface, Four SAS and two peeds & 48GB capacity Serial ATA/600 Interfaces
Memory	Three channels on each Intel Xeon E5-2400 Series Pro	ocessor		Dual USB Int (Rev. 2.0)
	DDR3-1600/1333 ECC Reg 6 x Mini-DIMM, up to 96GB			Dual USB Po
Video	XGI Z11M GPU, 8Mo, VGA output			(Rev. 2.0)
Ethernet	2x GbE (Intel® i350)			Video Port
	1x GbE (Intel® 82579) with Intel® AMT 7.0 support			Dual Full-Spe 10/100/10008
Disk	4x SAS/SATA 3Gb/s ports + 2x SATA 6Gb/s ports Intel® Rapid Storage Technology, supports RAID 0/1/10			Ethernet Int
USB	8x USB 2.0)	Power & Backplane I/O Connector C PCI Express® Co	nnector B PCI Express® Connector A
Watchdog timer	32msec ~32 sec software programmable, can general	te system reset	_	
Hardware monitor	CPU/System temperature, fan speed and onboard DC	voltages	_	
Backplane Specifications		-		
BPC7041	1xSHB / 9xPCIe x4 / 1xPCIe x1/x4			
	PEX10 and IOB33 mezzanine are required			
BPX6610	1xSHB / 2xPCIe x8 / 4xPCIe x4 / 6xPCI-X			
BPG7087	1xSHB / 4xPCle x16 / 5xPCle x4 (ideal for high end Graph	nics and GPU solutions,		
BPX8093 New	1xSHB / 6xPCIe x8 Gen3 / 4xPCIe x4 Gen3			New PCIe Gen 3
Environmental specifications				
Temperature	Operating: 0~45°C / Storage -20~80°C			
Humidity	Operating: 5 to 90% non condensing			
•	Operating: IEC 11mg (avia E. 100 Uz 0.80			
Shock & vibration	Operating: 15G, 11ms 6 axis - 5~100 Hz 0.8G			
Shock & vibration Noise	37dBA (MIL-STD-740-1)	24		
Shock & vibration		24		
Shock & vibration Noise CE certification System Monitoring and Manage	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement	OEM services		
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option)	OEM services > Branding user's Let	van - Costless, NRE fees only	
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement	OEM services > Branding user's Let > Customization :		
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana Local control with embedded M - FAN control & monitoring	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option)	OEM services > Branding user's Le: > Customization : - Front panel desig	n	
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana Local control with embedded M - FAN control & monitoring - Redundant P/S default	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons)	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on fro	n ont panel / rear panel	
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W conf	n ont panel / rear panel igurations	
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Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W funct	n ont panel / rear panel igurations tionality	
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Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor	n ont panel / rear panel igurations tionality	Iz, 15M Cache, 80W TDP, long life)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter og file nu entry file te health monitoring 2x 800W redundant - High Efficiency 80+ 90 ~ 240 VAC full range / 47~63 Hz	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific I/O on frr - Specific K/W func Call us for more info Options	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 Gi	Hz, 25M Cache, 70W TDP, long life)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file te health monitoring 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	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GI - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 GI	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter og file nu entry file te health monitoring 2x 800W redundant - High Efficiency 80+ 90 ~ 240 VAC full range / 47~63 Hz	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GI - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 - Dual Xeon E5-2418Lv2 (Six-Core, 2.0 GH	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration Power Supply Unit	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file te health monitoring 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	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GI - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 GI - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 - Dual Xeon E5-2430 (Six-Core, 2.0 GHz, -	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life) I5M Cache, 95W TDP, long life)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration Power Supply Unit Backplane	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file te health monitoring 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 BPG7087 1 x Slim DVDRW 1 x 2,5" SATA Removable Drive Enclosure	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GH - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 - Dual Xeon E5-2418Lv2 (Six-Core, 2.0 GH - Dual Xeon E5-2430 (Six-Core, 2.2 GHz, - Dual Xeon E5-2448L (Eight-Core, 1.8 GH	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life) I5M Cache, 95W TDP, long life) Iz, 20M Cache, 70W TDP, long life)
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Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration Power Supply Unit Backplane Drives	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file te health monitoring 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 BPG7087 1 x Slim DVDRW 1 x 2,5" SATA Removable Drive Enclosure 1 x 5,25" front accessible drive bay free 2 x USB	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor New	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GF - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GF - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 GF - Dual Xeon E5-2430 (Six-Core, 2.0 GF - Dual Xeon E5-2430 (Six-Core, 2.2 GFz, - Dual Xeon E5-2438L (Eight-Core, 1.8 GF - Dual Xeon E5-2428L (Six-Core, 1.8 GF - Dual Xeon E5-2428L (Six-Co	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life) I5M Cache, 95W TDP, long life) Iz, 20M Cache, 70W TDP, long life) 15M Cache, 60W TDP, long life) / 24GB / 48GB / 96GB
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lc - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration Power Supply Unit Backplane	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter og file nu entry file te health monitoring 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 BPG7087 1 x Slim DVDRW 1 x 2,5" SATA Removable Drive Enclosure 1 x 5,25" front accessible drive bay free 2 x USB VGA + 2xGbE + 4xUSB 2.0	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor New	n pont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GH - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GH - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 GH - Dual Xeon E5-2430 (Six-Core, 2.0 GH - Dual Xeon E5-2430 (Six-Core, 2.0 GH - Dual Xeon E5-2430 (Six-Core, 2.2 GHz, - Dual Xeon E5-2448L (Eight-Core, 1.8 GH - Dual Xeon E5-2428L (Six-Core, 1.8 GHz, DDR3-1600 ECC Registered : 6GB / 12GB - 2,5"SATA 7200 RPM Hard Drive (250GB	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life) I5M Cache, 95W TDP, long life) Iz, 20M Cache, 70W TDP, long life) 15M Cache, 60W TDP, long life) / 24GB / 48GB / 96GB ~ 1TB)
Shock & vibration Noise CE certification System Monitoring and Manage Intel® AMT 7.0 for remote mana- Local control with embedded M - FAN control & monitoring - Redundant P/S default - System & network informati - Watchdog & elapsed time co - Alarm (fan, temperature), Lo - User script launch form mer - Easy configuration with .TXT - Linux EPICS Driver for remot Standard configuration Power Supply Unit Backplane Drives	37dBA (MIL-STD-740-1) EMC: UE 2004/108/CE ; EN 61000-6-2, EN55022, EN 550 SAFETY: UE 2006/95 CE ; EN 60950-1: 2006 2 nd edition ement gement (option) MI (Windows services & Linux deamons) on unter ng file nu entry file te health monitoring 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 BPG7087 1 x Slim DVDRW 1 x 2,5" SATA Removable Drive Enclosure 1 x 5,25" front accessible drive bay free 2 x USB	OEM services > Branding user's Le: > Customization : - Front panel desig - Specific I/O on frr - Specific H/W cont - Specific S/W func Call us for more info Options Processor New	n ont panel / rear panel igurations tionality rmation - Dual Xeon E5-2430 v2 (Six-Core, 2.5 GF - Dual Xeon E5-2448Lv2 (Ten-Core, 1.8 GF - Dual Xeon E5-2428Lv2 (Eight-Core, 1.8 GF - Dual Xeon E5-2430 (Six-Core, 2.0 GF - Dual Xeon E5-2430 (Six-Core, 2.2 GFz, - Dual Xeon E5-2438L (Eight-Core, 1.8 GF - Dual Xeon E5-2428L (Six-Core, 1.8 GF - Dual Xeon E5-2428L (Six-Co	Hz, 25M Cache, 70W TDP, long life) GHz, 20M Cache, 60W TDP, long life) Iz, 15M Cache, 50W TDP, long life) I5M Cache, 95W TDP, long life) Iz, 20M Cache, 70W TDP, long life) 15M Cache, 60W TDP, long life) / 24GB / 48GB / 96GB ~ 1TB) IGB ~ 900GB)

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