ADLINK
LEADING EDGE AI COMPUTING

cPCI-A3535 Series

Datasheet

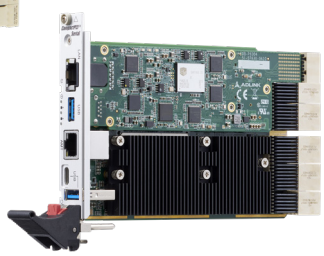
3U CompactPCI Serial 4HP/8HP CPU Blade (M12 & RJ45 Variant Options)

Features

- Intel® Xeon® Core™ i7/i5 Processor
- Up to 64GB DDR4-3200 ECC socketed memory via 2x SODIMM sockets
- Dual 2.5GbE M12 X-coded rugged ports or dual 1GbE RJ-45 ports
- High speed PCIe x8/x4/x1, USB, SATA, Ethernet ports across both variants



cPCI-A3535



cPCI-A3535RJ

Specifications

Technical Feature	M12 Variant (cPCI-A3535)	RJ45 Variant (cPCI-A3535RJ)
Core Architecture		
CPU	Intel® Core™ i7-11850HE processor, 8 Cores / 16 Threads, 4.7 turbo frequency, 24MB Cache memory Intel® Xeon® W-11555MLE processor, 6 Cores / 12 Threads, 1.90 GHz Base frequency, 12MB Cache memory	
Chipset	Intel® RM590E	
Memory	2x SODIMM sockets DDR4-3200 16GB/32GB/64GB based on customer's preferred configuration	
Storage	Onboard 3D NAND SLC mode, 80GB, 160GB	
Security	TPM 2.0, Secure Boot, BIOS Password	
System Management	Embedded Controller (EC) Intel® iAMT AMI UEFI Firmware	
Front Interfaces		
Ethernet	2x X-Coded M12 2.5GbE ports	2x RJ-45 GbE ports, one support iAMT
Service Ports	• 1x RJ-45 iAMT enabled 1GbE • 1x USB 3.2 Gen1 Type A • 1x USB-C with video out	2x USB 3.2 Gen1 Type A 1x USB-C with video out
Button	Reset	
LEDs	1x Board status 2x User programmable *When installed in a suitable enclosure	1x Board status 2x User programmable

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Ordering Information

Technical Feature	M12 Variant (cPCI-A3535)	RJ45 Variant (cPCI-A3535RJ)
Rear I/O Expansion		
PCIe	3x PCIe Gen3.0 x4 links 2x PCIe Gen4.0 x8 links 2x PCIe Gen3.0 x1 links	3x PCIe Gen 3.0 x4 links 2x PCIe Gen 4.0 x8 links 2x PCIe Gen 3.0 x1 links
USB	2x USB 3.2 Gen1 8x USB 2.0	2x USB 3.2 Gen1 8x USB 2.0
Ethernet	2x 1GbE Links	3x 1GbE Links
SATA	5x SATA3.x with RAID support	
SGPIO	SGPIO Links to control SATA carrier LED	
SMBUS	SMBUS / I^2c	
Security & Software		
Trusted Platform Module	TPM2.0	
Remote Management	Intel® iAMT Functional via front Ethernet port with system ON or in standby mode (standby supply required)	
BIOS	Latest AMI UEFI firmware	
Watchdog	CMOS battery only required to maintain date / time all other settings are stored in NVRAM	
Environmental		
Operating Temperature	-40°C to +70°C (EN50155 OT4 compliant: +85°C for 10 min)	0°C to +70°C
Storage Temperature	-40°C to +85°C	
Operating Humidity	Operating: 10% to 95% RH (non-condensing), EN60068-2-30	EN60068-2-30 10% to 95% relative humidity (non-condensing)
Storage Humidity	5% to 95% RH (non-condensing)	5% to 95% relative humidity (non-condensing)
Environmental	EN50155:2017 RoHS2.0 & REACH compliant	RoHS2.0 & REACH compliant
Conformal Coating	Conformal coating by request	
Compliance & Certifications		
EMI/ EMC	EN50155 class B, EN 50121-3-2 (radiated and conducted emission) EN55024, EN50121-3-2 (immunity) CE UKCA FCC	CE
Safety	EN50124-1:2017 for external 2.5GbE M12 ports LVD EN50155:2017 Fire Protection EN45545-2:2013+A1:2015 (HL 1-3) EL9 for PCB (R24 / R25)	CE
Mechanical		
Dimensions	3U 4HP/8HP 160mm x 100mm (L x W)	3U 4HP 160mm x 100mm (L x W)
Cooling	Forced air 1.5m/S *When installed in a suitable enclosure	Forced air 1.5m/S *When installed in a suitable enclosure

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Ordering Information

PN	Description
cPCI-A3535/11555MLE/M32/S80	3U 4HP cPCI S.0 CPU blade with Intel® Xeon® W-11555MLE CPU, 32GB DDR4 ECC RAM, 80GB iSLC SSD
cPCI-A3535D/11555MRE/M64/S80	3U 8HP cPCI S.0 CPU blade with Intel® Xeon® W-11555MRE CPU, 64GB DDR4 ECC RAM, 80GB iSLC SSD
cPCI-A3535RJ/11850HE/M16	3U 4HP cPCI S.0 CPU blade with Core™ i7-11850HE processor, 16GB DDR4-3200 ECC RAM with 2x RJ-45 LAN, 2x USB 3.2, 1x USB-C

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