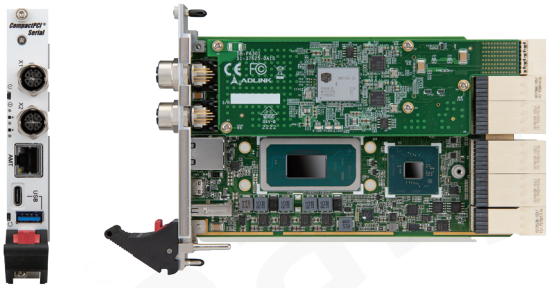
ADLINK
LEADING EDGE COMPUTING

3U CompactPCI Serial Intel® Xeon® W Processor Blade

cPCI-A3535

Datasheet

Preliminary



Features

- Intel® Xeon® W-11555MLE 6-Core 1.9GHz Processor
- Operating temperature range -40°C to +70°C
- DDR4 ECC socketed memory up to 64GB
- 80GB 3D Nand flash SSD in SLC mode
- USB3.2 and USB-C Front panel service ports
- 2x M12 2.5GbE front panel ports for on train use
- 1x RJ45 iAMT front panel service port
- 2x 1GbE Rear I/O ports
- 10x USB Rear I/O ports
- 5x SATA 3.x channels to rear I/O with RAID
- Up to 7x PCIe Rear I/O links (TBC)
- TPM2.0

Specifications

System	CPU	Intel® Xeon® W-11555MLE processor 12MB Cache memory 6 Cores 12 Threads 1.90 GHz Base frequency
	Chipset	Intel® RM590E[1]
	Memory	2x SODIMM sockets DDR4-3200 Maximum 64GB
	Storage	On board 80GB 3D NAND SLC mode
	Security	TPM2.0 Secure boot BIOS password
	System management	Embedded Controller (EC) Intel® iAMT AMI UEFI Firmware

1. Due to Intel PCH specification limitation , the maximum of PCIe Root Ports (or devices) is 16 that can be enabled. The PCIe from PCH is impacted from peripheral slot 3 of backplane when CPU slot is named as slot 0. But the PCIe from CPU of peripheral slot 1 and 2 are not impacted.

Specifications

Front Interfaces	Ethernet	2x X-Coded M12 2.5GbE ports
	Service Ports	1x RJ-45 iAMT enabled 1GbE 1x 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
Rear I/O	PCIe	3x PCIe Gen3.0 x4 links 2x PCIe Gen4.0 x8 links 2x PCIe Gen3.0 x1 links (TBC)
	USB	2x USB 3.2 Gen1 8x USB 2.0
	Ethernet	2x 1GbE Links
	SATA	5x SATA3.x with RAID support
	SGPIO	SGPIO Links to control SATA carrier LED
	SMBUS	SMBUS / i2c
Trusted Platform Module	TPM2.0	
Remote Management	Intel® iAMT Functional via front Ethernet port with system ON or in standby mode (standby supply required)	
Ignition Control	Ignition control supported in suitable rack such as R5001C. BIOS options to control delay times	
BIOS	Latest AMI UEFI firmware	
Watchdog	CMOS battery only required to maintain date / time all other settings are stored in NVRAM	
Environmental Protection	Main PCB conformal coated	
Environmental	Operating Temperature range	-40°C to +70°C (EN50155 OT4 +85°C for 10 minutes)
	Storage Temperature range	-40°C to +85°C
	Operating Humidity range	EN60068-2-30, EN50155 10% to 95% relative humidity (non-condensing)
	Storage Humidity range	5% to 95% relative humidity (non-condensing)
	Environmental	EN50155:2017 RoHS2.0 & REACH compliant
Environmental EMC / Safety*	EMI/EMC	EN50155 class B, EN 50121-3-2 (radiated and conducted emission) EN55024, EN50121-3-2 (immunity) CE UKCA FCC
	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)
Mechanical	Dimensions	4HP 160mm x 100mm (L x W) Designed for use in cPCI-S.0 single 3U slot
	Cooling	Forced air 1.5m/S *When installed in a suitable enclosure

Preliminary

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