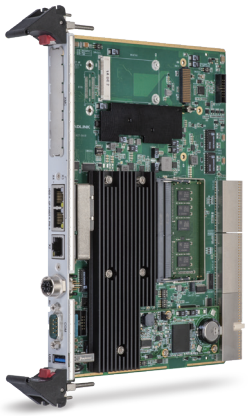
ADLINK
LEADING EDGE COMPUTING

6U CompactPCI Elkhart Lake Atom based Processor Blade

cPCI-6660 Series

Datasheet

New



CompactPCI®

EXTENDED TEMPERATURE

Features

- Quad core Intel Atom® x6413E Processor
- Dual Channel DDR4-2400-3200MT/s with IBECC
- 5V power input only
- Four 2.5GbE Ethernet ports, 3x RJ-45 and 1x M12 X-coded
- Onboard iSLC, optional 2.5" SATA space or mSATA by BOM option

Specifications

System	Processor	Intel® Elkhart Lake platform Intel Atom® x6413E Processor, quad core, base frequency 1.5GHz, Burst frequency 3.0GHz, 9W TDP.
	Memory	Dual Channel DDR4-2400-3200MT/s with IBECC Max 32GB With retention bracket
	Ethernet	4x 2.5 Gigabit Intel® I225-IT Ethernet ports 3x 2.5G RJ-45 ports on front, 2 of them switchable to J3 1x 2.5G M12 X-coded Gigabit Ethernet controller i210 by daughter board
	USB	1x bootable USB 3.2 Gen 1x1 on front panel 1x USB 2.0 to J3
	Serial port	1x RS-232 port 1x RS-232 pin header 2x Serial ports to J3
	XMC	PCIe x4 XMC slot (Shared space with 2.5" SATA slot)
	VGA	One 14-pin pin header via flying cable for debugging one VGA to J3
	Audio	High Definition Audio to J3
	PS/2	1x PS/2 to J3
	RTC	Reserve space for coin cell battery Reserve super capacitor for RTC as BOM option

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Specifications

System	Storage	Optional 40/80 GB onboard iSLC Onboard mSATA slot (Share signal with 2.5" SATA drive slot) One SATA to J3
	TPM	TPM 2.0 by INFINEON SLB 9665XT2.0
	Front panel	3x RJ-45 2.5 GbE ports 1x M12 2.5 GbE port 1x USB Type A with USB 3.2 Gen 1x1 ports 1x DB-9 RS-232 port 1x Power status LED 1x WDT LED 1x HDD status LED 1x General purpose LED 1x Reset button 1x Load BIOS default button
	CompactPCI Bus	PCI 32 bit/ 33MHz
BIOS and OS	BIOS	UEFI BIOS, UEFI Secure Boot
	OS support	Windows 10 IOT Enterprise VxWorks 6.9 (By request)
Power	Power Input	5V only
	Power consumption	20 W with Windows OS Max mode
Mechanical	Dimension	233.33mm x 160mm x 4HP
	CompactPCI connectors	J1, J2, J3
	Thermal	Passive cooling heatsink.
	PCB Coating	All PCBs conformal coated both sides – type HumiSeal 1B73 Coating (AR) Acrylic
	Net Weight	550g with heatsink, DRAM, daughter board, retention bracket
Environmental	Operating Temperature	-25°C to +85°C EN50155 OT5 Class Note: 1) The airflow inside all racks is 2m/s minimum and the operating temperature is measured near the fans in the rack. 2) According EN50155 version 2017 OT5.
	StorageTemperature	-40°C to +85°C
	Humidity operating	5% to 95% relative humidity (non-condensing)
	Humidity storage	5% to 95% relative humidity (non-condensing)
	MTBF	438, 634 hrs. in Telcordia Issue 4 40°C GB GC
	EMC (when installed in suitable rack)	CE/FCC Class A
	Environmental-Vibration and shocks (when installed in suitable rack)	CEI-61373 standard (1B category)
Safety	Fire Protection	Compliant to EN45545-2:2013+A1:2015 (HL 2) EL9 for PCB (R24 / R25)
Standard	PICMG Compliance	PICMG 2.0 CompactPCI R3.0 PICMG 2.1 Hot Swap R2.0 PICMG 2.16 Packet Switch Backplane R1.0
	Directive	RoHS and REACH

intel partner Titanium IoT Solutions

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