

3U CompactPCI 9th Gen Intel<sup>®</sup> Xeon<sup>®</sup>/Core™ i7/Celeron<sup>®</sup> Processor Blade

# Features

- 14nm multi-core 9th Gen Intel<sup>®</sup> processor, (formerly Coffee Lake Refresh)
- Max. 32GB DDR4-2666 by 2x SODIMM
- Up to three independent displays
- System/Peripheral slot operation
- TPM 2.0 Support



# **Specifications**

# Processor & System

# CPU

Intel<sup>®</sup> Xeon<sup>®</sup> E-2276ML 6C/12T, 25W 9th Gen Intel<sup>®</sup> Core<sup>™</sup> i7-9850HL 6C/12T, 25W 9th Gen Intel<sup>®</sup> Core<sup>™</sup> i7-9850HE 6C/12T, 45W/35W

#### Chipset

Intel<sup>®</sup> CM246 Chipset

#### Метогу

DDR4-2666 dual bank SODIMM memory, up to 32GB Supports ECC memory (dependent on processor)

BIOS AMI UEFI BIOS, dual 128Mb SPI flash memory

BMC

Supports ADLINK SEMA 4.0

# CompactPCI Bus

PCI 32-bit, 33/66 MHz, 3.3V or 5V universal V (I/O) Supports operation in system slot as master or in peripheral slot as standalone blade without connectivity to CompactPCI® bus (Satellite mode)

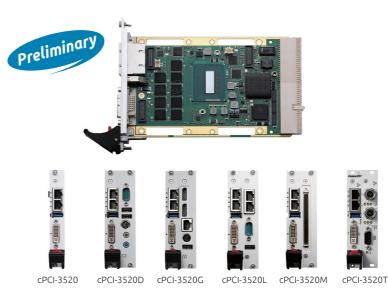
#### **PICMG Standards**

PICMG 2.0 CompactPCI R3.0 PICMG 2.1 Hot Swap R2.0 PICMG 2.9 System Management (R1.0)



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# Connectivity

#### PMC/XMC

Optional PCI 64-bit/66MHz PMC site or PCIe x1 XMC site

#### Ethernet

One Intel® 1219LM controller for one Gigabit Ethernet front panel port with Three Intel® 1210IT controllers for one Gigabit Ethernet front panel port and two rear ports

Additional two Intel® I210L controllers for two Gigabit Ethernet front panel ports on riser card (cPCI-3520L/cPCI-3520T)

# Graphics

Integrated in Intel<sup>®</sup> processor, 3D engine One DVI-I (digital+analog) port on front panel, analog switchable to rear, supports up to QXGA 2048x1536 pixels@75Hz, 32-bits Two DisplayPorts on riser card, support up to 2560×1440 pixels @ 60Hz, DVI, VGA and HDMI interfaces are available by adapter cables (cPCI-3520G only) Three independent displays with different /contents

#### USB

Single USB 3.0 port on front panel, and up to three USB ports on front panel on selected SKUs Three USB ports to rear, two on RTM panel

# Audio

Line-in and Line-out ports on front panel (cPCI-3520D only)

# **PS/2** Keyboard/Mouse on cPCI-3520D and cPCI-3520G

#### Serial Port

#### Up to four serial ports

One RS-232/422/485 selectable port on front panel (cPCI-3520D/cPCI-3520L/ cPCI-3520T) One RS-232/422/485 10-pin header on riser card (cPCI-3520G only)

Two serial ports on rear panel: one with Tx/Rx signal only, one converted from USB signal



# **Specifications**

# Storage

Blade

One SATA direct connector for 2.5" onboard HDD (8HP & 12HP version only)

CFast socket or mSATA socket Optional onboard 32GB SSD (by replacing CFast adapter board)

RTM Three 7-pin SATA signal connectors Supports SATA RAID 0/1/5/10

# • Operating System

OS

Microsoft Windows 10, 32/64-bit Linux 6.4 Wind River VxWorks QNX Software Development Platform (SDP 7.0) (Please contact ADLINK for other OS support)

# Miscellaneous

LEDs

Power, WDT, Storage Drive, Overheat, General Purpose

# Battery

Coin cell lithium battery onboard for RTC CMOS RAM for BIOS configuration

### Watchdog Timer

System Reset and NMI, with Programmable Interval, 1-65535 sec or 1-65535 minutes

Hardware Monitor Monitors CPU temperature, system temperature and DC voltages by IPMI

## TPM

Support TPM 2.0 (optional support upon request)

# • Mechanical & Environmental

Form Factor 3U 4HP/8HP/12HP CompactPCI blade 100mm x 160mm (L x W)

# Operating Temperature

-20°C to +70°C -40°C to +85°C Storage Temperature: -50°C to +100°C

**Relative Humidity** 95% non-condensing

Shock 20G peak-to-peak, 11ms duration, operating

Vibration 2Grms random vibration, 5 to 500Hz in 3 axes, operating

#### Weight Net weight 713.55g (cPCI-3520D with heatsink) Net weight 718.20g (cPCI-3520G with heatsink)

# Safety & EMI Certifications

CE/FCC



# I/O Table

		GbE	USB	СОМ	Display	PS/2 KB/MS	Storage	Onboard SSD	Audio	PMC/XMC
					SBC					
cPCI-3520 (4HP)	Faceplate	2 (RJ-45)	1 (3.0)		1 (DVI-I)					
	Onboard						1 (CFast)	optional <sup>(2)</sup>		
cPCI-3520D (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 1 (2.0)	1 (DB9)	1 (DVI-I)	1				
	Onboard						1 (SATA) 1 (CFast)	optional <sup>(2)</sup>	1 (Line-in) 1 (Line-out)	
cPCI-3520G (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	1 (RJ-45)	1 (DVI-I) 2 (DP)	1				
	Onboard			1 (10-pin)			1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		
cPCI-3520L (8HP)	Faceplate	4 (RJ-45)	1 (3.0) 1 (2.0)	1(DB9)	1 (DVI-I) 2 (DP)	1				
	Onboard			1 (10-pin)			1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		
cPCI-3520L (8HP)	Faceplate	4 (RJ-45)	1 (3.0) 1 (2.0)	1(DB9)	1 (DVI-I)					
	Onboard						1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		
cPCI-3520M (8HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	2 (DB9)	1 (DVI-I) 2 (DVI-D)	1			1 (Line-in) 1 (Line-out)	
	Onboard						1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		
cPCI-3520P (12HP)	Faceplate	2 (RJ-45)	1 (3.0) 2 (2.0)	1 (DB9)	1 (DVI-I)	1			1 (Line-in) 1 (Line-out)	
	Onboard						1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		1
cPCI-3520S (8HP)	Faceplate	2 (RJ-45)	1 (3.0)		1 (DVI-I)					
	Onboard						1 (CFast)			1
cPCI-3520T (8HP)	Faceplate	2 (RJ-45) 2 (M12)	1 (3.0)	1 (DB9)	1 (DVI-I)					
	Onboard						1 (SATA) 1 (CFast)	optional <sup>(2)</sup>		
					RTM					
PCI-R3P00(T)	Faceplate	2 (RJ-45)	2 (2.0)	2 (DB9)	1 (VGA) <sup>(1)</sup>					
	Onboard						3 (SATA)			

(1) Switched from front port

(2) Available by replacing CFast or mSATA board with onboard SSD adapter board

# **Ordering Information**

# • cPCI-3520/2776/M16/S128

1-slot (4HP) 3U CompactPCI blade with Intel $^{\circ}$  Xeon $^{\circ}$  E-2276ML processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0 and onboard 128GB SSD

# • cPCI-3520/9850H/M16/S32

1-slot (4HP) 3U CompactPCI blade with Intel<sup>®</sup> Core<sup>™</sup> i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0 and onboard 32GB SSD

# • cPCI-3520D/9850H/M16

2-slot (8HP) 3U CompactPCI blade with Intel<sup>®</sup> Core<sup>™</sup> i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Line-out, CFast socket and SATA connector

# • cPCI-3520G/9850H/M16

2-slot (8HP) 3U CompactPCI blade with Intel<sup>®</sup> Core™ i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, RJ-45 COM, 2x DisplayPort, PS/2 KB/MS, 1x USB 2.0, CFast socket and SATA connector

# • cPCI-3520T/9850H/M16 (available by request)

2-slot (8HP) 3U CompactPCI blade with Intel<sup>®</sup> Core<sup>™</sup> i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, 2x GbE in RJ-45 and 2x GbE in MIL-STD M12 connectors, COM (RS-232/422/485), CFast socket and SATA space

# • cPCI-3520L/9850H/M16

3-slot (12HP) 3U CompactPCI blade with Intel<sup>®</sup> Core™ i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 4x GbE, 1x USB 3.0, 2x USB 2.0, CFast socket and SATA space

## • cPCI-3520M/9850H/M16 (available by request)

2-slot (8HP) 3U CompactPCI blade with Intel<sup>®</sup> Core<sup>™</sup> i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, 3x DVI, 2x GbE, 1x USB 3.0, 2x USB 2.0, 2x COM, PS/2 KB/MS, Line-in, Lineout, CFast socket and SATA connector

# • cPCI-3520S/9850H/M16

2-slot (8HP) 3U CompactPCI blade with Intel<sup>®</sup> Core™ i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, CFast socket and PMC/XMC connector

### • cPCI-3520P/9850H/M16 (available by request)

3-slot (12HP) 3U CompactPCI blade with Intel<sup>®</sup> Core™ i7-9850HL processor, 16GB DDR4-2666 ECC soldered memory, DVI, 2x GbE, 1x USB 3.0, COM, 2x USB 2.0, PS/2 KB/MS, Line-in, Lineout, CFast socket, SATA connector and PMC/XMC connector

# Accessories

- SATA drive installation kit 2.5" SATA drive installation package including bracket, screws
- Y-cable for keyboard & mouse Y-cable for keyboard & mouse and 200mm in cable length
- DisplayPort to DVI cable
  DisplayPort to DVI adapter cable with 150mm cable (one is included in cPCI-3520G package by default)
- DisplayPort to VGA cable DisplayPort to VGA adapter cable with 150mm cable
- **DisplayPort to HDMI cable** DisplayPort to HDMI adapter cable with 150mm cable
- RJ-45 to DB9 cable (cPCI-3520G only) RJ-45 to DB9 COM adapter and 200mm in cable length
- SCSI 100p to IO cable (cPCI-3520M only and available by request) SCSI 100-pin male to 2 x DVI-D female, 2 x DB9 male, 2 x USB female, 2 x PS/2 female, 2 x audio jack, 150 mm cable Contact us for different CPU, memory, SSD/HDD, CFast and mSATA combinations.

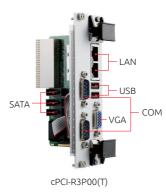
# **Rear Transition Module**

# • cPCI-R3P00

8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 50mm depth

## • cPCI-R3P00T

8 HP Rear I/O module with 2x GbE, 2x COM, 2x USB 2.0, 3x SATA connectors, VGA, 80mm depth





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