

# Rugged Fanless Railway Platforms

## AVA-5500 New



### Rugged, Fanless AI-enabled Video Analytics Platform with NVIDIA® Quadro® GPU

- 6th/7th Gen Intel® Core™ i7 processors
- NVIDIA® Quadro® GPU MXM 3.1 Type A/B module on PCIe x16 Gen 3
- 8x M12 GbE (4x PoE), 4x RS-422, 4x USB 3.0, 1x DVI-I, 4x DisplayPort with lockable connectors
- Multiple storage options: 2x 2.5" SATA 6.0 Gb/s drive bays, 1x M.2 2280 slot, 1x CFast socket
- GNSS/3G/4G/WLAN support via 2x mPCIe slots and 2x USIM slots
- MVB/CAN bus support through mPCIe add-on modules
- Wide range DC input: 24VDC, 36VDC, 72VDC and 110VDC
- EN50155-compliant, -25°C to +70°C wide operating temperature range

## AVA-5600 New



### High Performance Fanless Platform with Intel® Core™ i7-7820EQ Processor

- 4x M12 GbE with PoE, 4x lockable DisplayPort outputs from independent GPU, 4x USB 3.0
- Multiple storage options: 2.5" SATA 6.0 Gb/s drive bay, 1x M.2 2280 slot, 1x CFast socket
- GNSS/3G/4G/WLAN support via 2x Mini PCIe slots and 2x USIM slots
- MVB/CAN bus support through mPCIe add-on module
- Nominal voltage: 24VDC, 36VDC, 72VDC and 110VDC
- EN50155-compliant, -25°C to +70°C wide operating temperature range

## DCS-211 New



### 1.5U 19" Rackmount Data Collection System

- Intel Atom® E3930 processor
- 8x Digital I/O with 2kVrms isolation, 4x 2A relays in DO
- 3x M12 GbE, 1x RJ-45 GbE, 2x isolated RS232/422/485, 2x USB and one lockable HDMI port
- Two DB-9 connector cutouts reserved for MVB or CAN modules
- Up to 3x mPCIe slots with one USIM card slot each
- Storage: up to 64GB eMMC 5.0, 1x 2.5" SATA drive bay (CFast optional) and onboard M.2 slot
- EN50155-compliant, -40°C to +70°C wide operating temperature range

## CCU-5500



### High-Performance Fanless Onboard Wi-Fi Communication Control Unit

- 6th/7th Gen Intel® Core™ i7 quad-core processors
- Up to six mPCIe slots for cellular modules and dual SIM slots for each module
- QMA antenna connectors supported
- 2x M12 GbE, 2x M8 USB 2.0, 8x Digital I/O and 2x serial ports
- Storage: 2.5" SATA drive bay, externally accessible CFast slot, and onboard M.2 slot
- Nominal voltage: 24VDC, 36VDC, 72VDC and 110VDC
- EN50155-compliant, -40°C to +70°C wide operating temperature range

## DMI-1210 New



### 12.1" Driver HMI with Intel Atom® x5-E3930 Processor

- Intel Atom® x5-E3930 processor, up to 1.8GHz
- 12.1" color display: 4:3, 1024x768 pixels, 600cd/m2, 5-wire resistive touch
- Up to 8GB DDR3L memory, 32GB eMMC storage (64GB optional)
- Software-controlled backlight
- MVB/CAN bus support by PC/104 or mPCIe add-on modules
- Built in GNSS and two mPCIe card slots for cellular modem with USIM
- Nominal voltage: 24VDC, 36VDC, 72VDC and 110VDC
- EN50155-compliant, -25°C to +70°C wide operating temperature range
- IP65 front and IP20 rear ingress protection ratings

## DMI-1040 New



### 10.4" Driver HMI with Intel Atom® x5-E3930 Processor

- Intel Atom® x5-E3930 processor, up to 1.8GHz
- 10.4" color display: 4:3, 1024 x 768 pixels, high brightness 1000cd/m2, 5-wire resistive touch, auto dimming
- 2GB DDR3L memory (up to 8GB optional)
- 64GB eMMC storage
- Power input voltage: 24VDC, 36VDC, 72VDC and 110VDC
- EN50155-compliant, -25°C to +70°C wide operating temperature range
- IP65 front and IP20 rear ingress protection ratings

## HPERC-KBL-M Series New



### Ultra-compact Rugged Platform with NVIDIA® Quadro® GPU

- SWaP-optimized VITA 75 small form factor platform
- Intel® Xeon® Processor E3-1505M v6 quad-core processor
- NVIDIA® Quadro® GPU MXM 3.1 Type A/B module on PCIe x16 Gen3
- Soldered DDR4-2400 16GB ECC RAM
- Quad Gigabit Ethernet, and 6x USB ports
- 3 independent displays (DVI/VGA)
- Extended operating temperature: -40°C to +75°C; -40°C to +85°C (coldplate)
- OS support: Windows 10, RHEL 7.3

## MXE-210/MXE-210i Series



### Ultra-compact IoT Platform with Intel Atom® E3900 Processor

- Equipped with Intel Atom® x7-E3950/x5-E3930 processors
- Compact fanless design: 140(W) x 110(D) x 58(H) mm
- Rich I/O & expansion: 1x DisplayPort, 2x USB 2.0, 2x USB 3.0, 2x GbE, 2x COM ports; 2x mPCIe slots, USIM slot, mSATA, Micro SD slot
- Optional 2.5" SATA SSD by storage kit, and eSIM support
- Built-in ADLINK SEMA management solution
- EN50121-compliant, -20°C to +70°C wide operating temperature range

# CompactPCI Platforms & Peripherals

cPCI-3630



### 3U CompactPCI Quad-Core Intel Atom® Processor X Series Blade

- Up to 8GB DDR3L-1600 ECC soldered memory and onboard up to 128GB SSD support
- Smart Embedded Management Agent (SEMA) for system health monitoring
- Optional GbE ports with MIL-STD M12 connectors
- EN 50155 compliant for railway safety-critical applications
- -40°C to +70°C fanless operation (up to +85°C with airflow)
- Minimum 10 years product life support

cPCI-3620

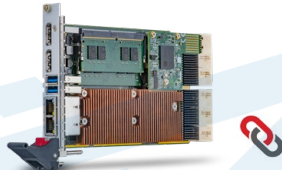


### 3U CompactPCI Quad-Core Intel Atom® Processor E3800 SoC Blade with ECC

- Outstanding performance and energy efficiency
- -40°C to +70°C fanless operation (up to +85°C with airflow)
- Optional GbE ports with MIL-STD M12 connectors
- VxWorks 5.5.1 support

cPCI-A3525

**New**



### 3U CompactPCI Serial 8th/9th Gen Intel® Xeon®, Core™ i7, Celeron® Processor Blade with ECC

- PICMG® CPCI-S.0 CompactPCI® Serial Processor Blade
- 14nm up to 6 core 9th Gen Intel® processor, (formerly Coffee Lake Refresh)
- Max. 64GB DDR4-2666 by 2x SODIMMs
- Supports 2x PCIe x8 Gen 3 and 2x PCIe x4 Gen 3
- Up to 10x USB 2.0/3.0, up to 7x SATA to rear

cPCI-A3515



### 3U CompactPCI Serial 4th/5th Gen Intel® Core™ i7 Processor Blade with ECC

- PICMG CPCI-S.0 CompactPCI Serial Processor Blade
- Up to 16GB DDR3L ECC soldered memory with ECC support
- Up to three independent displays
- Hybrid design bridges serial interfaces with existing PICMG 2.0 I/O cards

cPCI-3520

**New**



### 3U CompactPCI 8th/9th Gen Intel® Xeon®, Core™, Celeron® Processor Blade with ECC

- Up to 32GB DDR4-2666 soldered memory
- Supports three independent displays
- System/Peripheral slot operation
- Up to -40°C to +85°C operation
- Multi options storage interfaces incl. cFAST, SSD, mSATA, 2.5" SATA drive
- Flexible IO interfaces by mezzanine card selections
- Design for EN50155 compliance

cPCI-6540

**New**



### 6U CompactPCI 9th Gen Intel® Xeon®, Core™ Processor Blade with two PMC/XMC sites

- Dual channel DDR4-2666 memory, soldered and SO-CDIMM, up to 32GB
- Supports three independent displays
- Remote management and TPM support
- Extended temperature supported

cPCI-3E10/3E12



### 3U CompactPCI 2/4-Port Gigabit Ethernet Card

- 32-bit/33MHz, 66-bit/64MHz CompactPCI bus
- Two or four RJ-45 10/100/1000BASE-T ports on front panel
- Two LAN ports switchable to rear
- Optional LAN port via D-Sub connector

cPCI-3EW20-MVB

**New**



### 3U CompactPCI Mini PCIe MVB Carrier Card

- PICMG 2.0 R3.0 compliance
- Two DB-9 connectors on faceplate
- MVB version with Duagon MVB module
- Operating Temperature: -40°C to +85°C
- EN50155 compliance

## cPCI-3EW20-M12

**New**



### 3U CompactPCI M12 Ethernet Card

- PICMG 2.0 R3.0 compliance
- Four independent Ethernet controller Intel i210
- Four M12 Ethernet ports on faceplate
- 1500V AC isolated
- Operating Temperature: -40°C to +85°C
- EN50155 compliance

## cPCI-3EW20-LTE

**New**



### 3U CompactPCI Mini PCIe LTE Card

- PICMG 2.0 R3.0 compliance
- Support one Mini PCIe LTE module
- Two SMA connectors and one DB-9 for PA control on front panel
- 1500V AC isolated
- Operating Temperature: -40°C to +85°C
- EN50155 compliance

## cPCI-3548

**New**



### 8-Port RS-232/422/485 Isolated Serial Communications Card

- 32-bit CompactPCI®, PICMG® 2.0 Rev 3.0
- Plug-and-play, IRQ & I/O address automatically assigned by PCI BIOS
- Eight asynchronous communications ports with intelligent buffer
- Eight RS-232/422/485 ports
- 2500 VDC signal to ground isolation voltage
- Supports multiple OS
- Surge protectors
- Rugged DB37 connector

## cPCI-3544



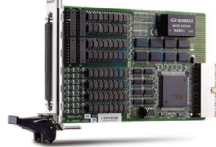
### 4-Port RS-422/485 Isolated Serial Communications Card

- Plug-and-play, IRQ & I/O address automatically assigned by PCI BIOS
- Four asynchronous communications ports with intelligent buffer
- Four RS-422/485 ports
- 2500 VRMS isolation voltage

## cPCI-7432/7433/7434

### 64-CH Isolated Digital I/O Modules

- 5000VRMS isolation voltage
- Sink current up to 500mA on each isolated output
- Rear I/O available on cPCI-7432R, 7433R, 7434R



## cPCI-7841

### Dual-port Isolated CAN Interface Cards

- Two independent CAN network operation
- 2500 VRMS isolation protection
- Direct memory mapping to the CAN controllers
- PCI bus plug-and-play



## cPCI-A3X10

**New**



### 3U CompactPCI Serial XMC Module Carrier

- 3U 4HP CPCI-S.0 peripheral
- One XMC slot
- Operating temperature: -40°C to 85°C with qualified component

## cPCI-A3H10

**New**



### 3U CompactPCI Serial 2.5" SATA Storage Carrier

- 3U 4HP CPCI-S.0 peripheral
- One 2.5" SATA 6Gb/s drive slot
- Status LEDs on faceplate: drive activity, hot-swap status, user-configurable
- Hot swap support
- Operating temperature: -40°C to 85°C with qualified component

## CPGS-9120-M12-A / CPGS-9160-M12-A

### EN 50155 12/16-port managed Gigabit Ethernet switch

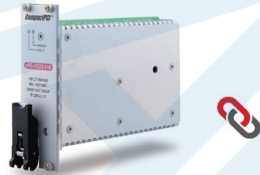
- 4 or 8 Gigabit Ethernet ports on front in M12 connectors and 8 ports on rear
- O-Ring fast recovery technology
- Open-Ring / O-Chain network redundancy technology
- Configuration via web-based interface, CLI, and SNMP



**ORing**

## Power Supplies

### cPS-H325/WDC



#### 3U CompactPCI 8HP Wide Input Range Power Module

- Input voltage range from 16.6 to 160VDC
- -40°C to +85°C operating temperature
- Hot-swap support for N + 1 redundancy
- Output power 120W (fanless) or 300W (forced air)
- Remote signal and degradation signal support

### cPS-H325/AC



#### 3U CompactPCI 8HP 250W AC Power Module

- Input voltage range from 90 to 264VAC
- 250W nominal output power
- Operating temperature -40°C to +70°C
- Internal ORing diodes for N + 1 redundancy
- Hot swappable
- Active current sharing

## Systems

### cPCIS-ET1100



#### 3U 84HP CompactPCI Fanless Enclosure with 32-bit Backplane and Redundant Power Supply

- 19" 3U rack mount housing with 7 peripheral slots
- Comprehensive EMC shielding
- Equipped with wide temperature range CompactPCI redundant power supply (Max. output 500 W)
- Optional dual system segments, each with one system slot and five peripheral slots

### cPCIS-3048



#### 3U 48HP CompactPCI Fanless Enclosure with 6-slot Backplane and Redundant Power Modules

- 3U CompactPCI backplane with one system slot and five peripheral slots
- Suitable for rackmount applications
- 3U 48HP fanless enclosure
- Optional redundant CompactPCI power modules