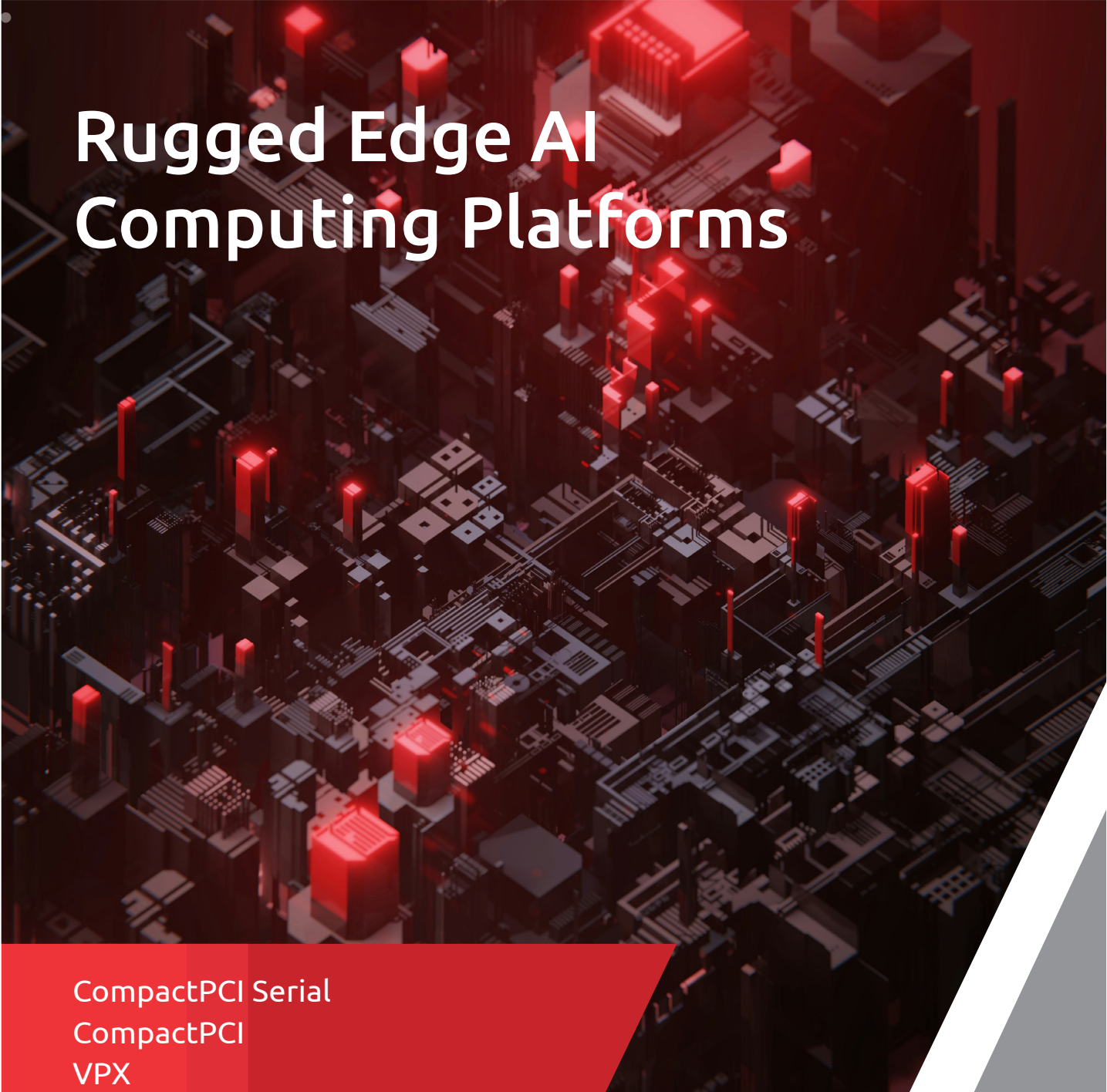




Rugged Edge AI Computing Platforms

CompactPCI Serial
CompactPCI
VPX

AVA Rugged Edge AI Computers
Advanced Rugged Display

ADLINK Unveils Rugged Edge AI Innovation

ADLINK’s latest lineup of industry-standard CompactPCI, CompactPCI Serial, VPX and PC104 rugged computing solutions integrates advanced CPU and GPU technologies to empower edge AI applications in railway, defense, and rugged environments. This comprehensive portfolio of COTS, ruggedized, and vertically-certified blades and platforms ensures unparalleled reliability, longevity, and performance for mission-critical appliances.

As a Premier Member of the Intel® Internet of Things Solutions Alliance, NVIDIA Quadro Embedded Partner, and OEM/ Jetson Preferred Partner, ADLINK leverages unrivalled access to advanced processing technologies. This enables us to pioneer innovative, open-standards-based heterogeneous computing solutions tailored to the unique demands of next-generation applications.



Railway



Defense



Rugged Environment

Ruggedized Offerings We Provide

Committed Standards Leadership

ADLINK contributes to standards initiatives across 24+ consortiums, including PICMG, PC104, VITA and SOSA.



SOSA



PC104

Quality and Longevity

ADLINK is supply chain management ISO 9001 & TL 9000 certified. Minimum 7-year life cycle, or extended life cycle service.



Ruggedized by DNA

ADLINK's rugged products are subjected to MIL-STD shock, vibration, and temperature testing during the product development process.



Design and Manufacturing Service

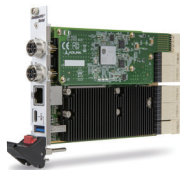


As a trusted ODM powerhouse with a flexible and agile organization, ADLINK can address customization and joint development requirements with efficiency and ease.

cPCI-A3535

**3U CompactPCI Serial
Intel® Xeon® W-11000 Processor Blade
with ECC**

- Intel® Xeon® W-11555MLE 6-core 1.9GHz processor
- Max. 64GB DDR4-3200 by 2x SODIMMs (ECC by option)
- 80GB 3D NAND Flash SSD in SLC mode
- USB 3.2, USB-C and RJ-45 iAMT front panel service ports
- 2x M12 2.5GbE/10GbE front panel ports for on train use
- 2x 1GbE, 10x USB 2.0/3.0 and 5x SATA (RAID) to rear



cPCI-A3525

**3U CompactPCI Serial
9th Gen Intel® Core™ i7 / Intel® Xeon®
Processor Blade with ECC**

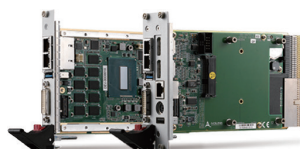
- 9th Gen Intel® Core™ i7 / Intel® Xeon® processor, 14nm process, up to 6-core
- Dual channel DDR4-2666 SODIMM, up to 32GB (ECC by option)
- Supports 2x PCIe x8 Gen 3 and 2x PCIe x4 Gen 3
- Up to 10x USB 2.0/3.0, up to 7x SATA to rear
- Onboard SATA SSD storage



cPCI-3520

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

- Up to 32GB DDR4-2666 soldered memory (ECC by option)
- Supports three independent displays
- System/Peripheral slot operation
- Extended temperature support
- Optional storage interfaces include cFast, SSD, mSATA, 2.5" SATA drive
- Flexible IO interfaces by mezzanine card
- Designed for EN50155 compliance



cPCI-6540

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

- Dual channel DDR4-2666 memory, soldered and SODIMM, up to 32GB (ECC by option)
- Supports three independent displays
- Remote management and TPM support
- 1x XMC site with PCIe x8
- Extended temperature support



cPCI-3640

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

- Low power quad-core Intel Atom® x6413E Processor (Elkhart Lake)
- Up to 32GB DDR4-2400-3200MT/s ECC soldered memory
- Optional onboard 32GB SSD support
- Smart Embedded Management Agent (SEMA) for system health monitoring
- Optional additional GbE ports with MIL-STD M12 connectors
- EN50155 compliant for railway applications



cPCI-6660

**6U CompactPCI
Intel® Atom™ X Series Processor Blade**

- Low power quad-core Intel Atom® x6413E Processor (Elkhart Lake)
- Up to 32GB DDR4-3200MT/s with IBECC by dual channel SODIMM
- Up to 4x Gigabit Ethernet ports; up to 3x RJ-45 2.5G ports on front
- 1x SATA/mSATA interface and onboard SSD
- 1x XMC site with PCIe x4



cPCI-3630

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

- Up to 8GB DDR3L-1600 ECC soldered memory and onboard SSD
- Smart Embedded Management Agent (SEMA) for system health monitoring
- Optional GbE ports with MIL-STD M12 connectors
- EN50155 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-6640

**6U CompactPCI
9th Gen Intel® Core™ Processor Blade**

- Quad-core 9th/8th Intel® Core™ i3/i5/i7 processor
- Up to 64GB DDR4-2666 memory via two SODIMMs (ECC by option)
- 3.3V/5V power input support (5V only as BOM option)
- 2x DVI-I independent displays/outputs
- 7x GbE ports via I210IT and 1x GbE via I219LM PHY
- 6x USB 3.0 ports and 2x RS-232 ports
- 1x 2.5" SATA 6Gb/s connector and 1x cFast socket for onboard storage



cPCI-3E10/3E12

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

- 32-bit/33MHz, 66-bit/64MHz CompactPCI bus
- 2x or 4x RJ-45 10/100/1000BASE-T ports on front panel
- 2x LAN ports switchable to rear
- Optional LAN port via D-Sub connector



cPCI-3548

**3U CompactPCI
8-Port RS-232/422/485 COM Card**

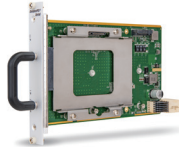
- 2x or 4x RJ-45 10/100/1000BASE-T ports on front panel
- Plug-and-play, IRQ & I/O address automatically assigned by PCI BIOS
- 8x asynchronous communications ports with intelligent buffer
- 2500 VDC signal to ground isolation voltage
- Support multiple OS
- Surge protectors and rugged DB37 connectors



cPCI-A3H20

3U CompactPCI Serial M.2/U.2/SATA Storage Carrier

- 1x NVMe M.2 and 1x NVMe U.2 drive slot
- 1x optional SATA 6Gb/s M.2 drive slot shared space with NVMe U.2
- Status LEDs on faceplate: drive activity, hot-swap status, user-configurable
- Operating temperature: -40°C to +85°C with qualified modules
- EN50155 compliant



cPCI-A3W20

3U CompactPCI Serial Wireless Networking Carrier Blade

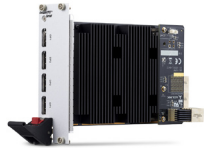
- 12x external QMA antennas on front panel
- 2x M.2 slots for 5G, LTE communication
- 1x Mini PCIe slot for GPS, Wi-Fi communication
- 8x micro-SIM holders
- EN50155 compliant



cPCI-A3MXM/A4500

3U CompactPCI Serial MXM GPU Carrier Card

- Compatible with MXM Type B
- NVIDIA RTX™ A4500 with 5888 CUDA® cores, 46 RT Cores, and 184 Tensor Cores
- 4x DisplayPort 1.4
- Operating temperature: -40°C to +60°C
- EN50155 compliant



cPCI-A3MXM/A1000

3U CompactPCI Serial MXM GPU Carrier Card

- Compatible with MXM Type A
- NVIDIA A1000 with 2048 CUDA® cores, 16 RT Cores and 64 Tensor Cores
- 4x DisplayPort 1.4
- Operating temperature: -40°C to +70°C
- EN50155 compliant



cPCI-A3COM

3U CompactPCI Serial RS-232/422/485 COM Card

- 2x asynchronous communications ports
- All support RS-232/422/485
- Operating temperature: -40°C to +85°C
- EN50155 compliant



cPCI-A3USB

3U CompactPCI Serial 4-Port USB 3.2/2-Port Ethernet Card

- 4x USB 3.2 Gen 1 ports
- 2x RJ-45 ports support up to 2.5G
- 2x independent Intel® i226IT Ethernet controllers
- Operating temperature: -40°C to +85°C
- EN50155 compliant



cPCI-A3ETH

3U CompactPCI Serial Ethernet Card

- 5x RJ-45 ports support up to 2.5G (PoE support optional)
- 5x independent Intel® i226IT Ethernet controllers
- Operating temperature: -40°C to +85°C
- EN50155 compliant



cPCI-A3CAN

3U CompactPCI Serial CAN FD Card

- 2 High-speed CAN channels (ISO 11898-2)
- CAN FD bit rates for the data field (64 bytes max.) from 25 kbit/s up to 12 Mbit/s
- CAN bit rates from 25 kbit/s up to 1 Mbit/s
- Operating temperature: -40°C to +85°C
- EN50155 compliant



cPCI-A3H10

3U CompactPCI Serial 2.5" SATA Storage Carrier

- 1x 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



cPCI-A3M12

3U CompactPCI Serial Serial M12 Ethernet Card

- 4x M12 x-codes support up to 10GB (by option)
- 4x independent Intel® i226IT or X710 Ethernet controllers
- Operating temperature: -40°C to 85°C

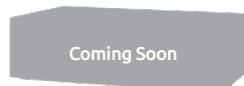


CompactPCI Serial Chassis

cPCIS-A3100/2AC

4U 84HP CompactPCI Serial Fanless Enclosure with Backplane and Redundant Power Supply

- 19" 4U rack mount housing with 8 peripheral slots
- Comprehensive EMC shielding
- Equipped with wide temperature range CompactPCI redundant power supply (Max. output 600 W)



cPCIS-ET1100

3U 84HP CompactPCI Serial 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





VPX Processor and GPU Blades



VPX-6200

6U VPX Dual Nodes Blade with Intel® Xeon® W-11865MRE

- Dual nodes, redundancy architecture
- Intel® Xeon® W-11865MRE processor (formerly Tiger Lake-H) per node
- M.2 2242 slot per node (upgradeable to 1TB by option)
- VITA 46/48/65 compliant for quick deployment
- Supports Windows 10 IoT Enterprise LTSC 21H2 and Linux (kernel 5.13 and higher)



VPX3020 Series

Rugged 3U VPX Intel® Xeon® Processor Blade

- Intel® Xeon® Processor E-2254ML (Coffee Lake)
- DDR4-2666 soldered ECC SDRAM up to 16GB
- 32GB SATA SLC SSD NAND flash
- Up to PCIe x16 Gen3 interface supporting non-transparent bridge
- 1x XMC expansion slot, PCIe x8 Gen3 with Rear I/O to P2
- VITA 46/47/48/65 compliant



VPX3-MXM/RTX5000

SOSA-aligned Rugged 3U VPX NVIDIA GPGPU Blade

- NVIDIA Turing architecture TU104 GPU with up to 3072 CUDA cores
- Optional SOSA-aligned and VITA 46/48/65 compliant for quick deployment
- Up to 16GB GDDR6 Memory with NVIDIA GPUDirect™ DMA technology
- PCIe x16 Gen3 to P1 (default PCIe x8)
- 4x DisplayPort or 4x HDMI outputs



VPX3-TL Series

SOSA-aligned Rugged 3U VPX Intel® Xeon® W-11865MRE Processor Blade

- Intel® Xeon® W-11865MRE processor (Tiger Lake-H); up to 8 cores with 45 watt TDP
- SOSA-aligned and VITA 46/47/48/65 compliant for quick deployment
- 32GB DDR4-2666 soldered ECC SDRAM (roadmap to 64GB)
- Supports NVMe and SATA SSD by BOM option up to 1TB
- 1x XMC expansion slot with PCIe x8 Gen3 (according to product SKU)
- Ethernet connectivity: 1x 2.5GBASE-T to P2; 2x 10GBASE-KR to P1; optional 2x 1GBASE-KX to P1
- 1x DisplayPort to P2, supports DP++ with resolution up to 8K/60Hz outputs

AVA, Rugged Edge AI Computers



AVA-7200

Fanless Railway AI Video Analytics based on NVIDIA Ampere GPGPU

- EN50155 certified AI platform
- NVIDIA Ampere architecture GPGPU A2000/A4500
- Intel 13th Gen mobile processor (Raptor Lake)
- Wide range DC 24-110V power input
- Fanless extended temperature support TPM 2.0
- 8x M12 X-coded 10G/2.5G ports, 5x USB, 4x SATA storage slots, 4DI/4DO, 2x Serial ports
- Internal NVME M2 slot, 5G M.2 slot, mPCIe slot for expansion



AVA-1000

Fanless Railway Train to Ground Communication Gateway

- EN50155 certified T2G platform
- Arm based NXP i.MX 8M Plus / Intel based Alder Lake by option
- 3x M.2 slots: 2x for 5G modem, 1x for Wi-Fi module
- 11x QMA antenna, 3x M12 Ethernet ports
- TPM 2.0
- Wide range DC 24-110V power input, S2, C1
- Fanless extended temperature OT4, ST1
- Compact size for easy installation



AVA-RAGX

Fanless AIoT Video Analytics Platform with NVIDIA Jetson AGX Xavier

- NVIDIA Jetson AGX Xavier with 32 TOPs AI performance
- 4x M12 GbE with PoE, 1x lockable HDMI output, 4x USB 3.0
- 1x M.2 B-key for LTE/5G; 1x M.2 A/E key 2230 for Wi-Fi
- 2x CAN DB-9 CAN-FD from AGX module, with isolation
- Power with ignition control
- Nominal power input voltage: 24VDC, 36VDC, 72VDC and 110VDC (EN50155 compliant)
- -25°C to +70°C wide operating temperature range (EN50155 class OT3)

Advanced Rugged Display

ARD-R2150/R2150B

Onboard passenger information display system

- 21.5 inch panel size
- 1920 x 1080 resolution
- 500nit/1000nit brightness
- i.MX 8M Plus CPU
- 24 ~110VDC
- EN50155 ready



ARD-RS3660/RS3660B

Onboard passenger information display system

- 36.6 inch panel size
- 1920 x 290 resolution
- 500nit/1000nit brightness
- i.MX 8M Plus CPU
- 24 ~110VDC
- EN50155 ready



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