ADLINK
LEADING EDGE AI COMPUTING

Fanless Scalable Railway Edge AI Platform

# AVA-7200

Datasheet



## Features

- EN50155:2021 certified Edge AI platform
- NVIDIA Ampere architecture GPGPU A2000/A4500
- Intel® 13th Gen Raptor Lake mobile processor
- Wide range isolated DC 24-110V 200W/ 110V 300W power input by BOM option
- Operates at -25°C to 55°C (OT1, ST1) or -25°C to 70°C (OT3, ST1)
- 8x 10GbE/2.5GbE M12 X-coded Ethernet, 5x USB, 4x SATA, 4x DI/DO, 2x Serial ports, audio, and DP
- Internal expansion for 1x NVME M.2 slot, 1x 5G M.2 slot with 2x SIM slots, 1x Wifi/BT M.2 slot, 1x mPCIe, accessible by lid opening
- QMA antenna on the rear side
- Fanless rugged design, conformal-coated for durability, flexibility, and longevity support

## Specifications

| | | |
|---|---|---|
| System | Processor | 13th Gen Intel® Core™ mobile processors (formerly Raptor Lake-P)<br>Core™ i5-13600HRE 4P+8E Core/16T 18MB Cache, 45W(35W cTDP)<br>Core™ i7-13800HRE 6P+8E Core 20T 24MB Cache, 45W(35W cTDP)<br>Other CPU upon request |
| | AI Accelerator | GPGPU by option<br>EGX-MXM-A2000<br>Embedded NVIDIA® RTX™ A2000, MXM 3.1 type A, 82 x 70mm, PCIe Gen4 x8<br><br>EGX-MXM-A4500<br>Embedded NVIDIA® RTX™ A4500, MXM 3.1 type B, 82 x 70mm, PCIe Gen4 x8 |
| | Memory | 32GB/64GB DDR5, IBECC (selected SKUs), SO-DIMM memory, max. 4800MT/s<br>2 memory channels with 1DPC design |
| | BIOS | AMI UEFI with CMOS backup in 32 SPI BIOS (dual BIOS opt.) |
| | Display | One Display Port from CPU |
| Storage | NVME | 1x PCIE Gen3 x4 M.2 M-key 2280 NVME slot |
| | SATA | 4x removable 2.5" SATA drive tray with lock (optional) |
| Connectivity | Ethernet | Max. 8x M12 X-coded Ethernet ports including 2x 10G + 6x 2.5G<br>POE upon BoM request |
| | USB | 4x USB 3.2 Gen2 Type-A ports<br>1x USB 2.0 Type-A port |
| | Digital I/O | 1x terminal block 4 input/4 output for DC 24- 110V with isolation 1.5kVDC |



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## Specifications

| | | |
|---|---|---|
| Connectivity | CAN/MVB | 2x DB-9 ports reserved for CAN/MVB with optional mPCIE module selected |
| | Audio | Mic-in/Line-out |
| | Wireless | 1x PCIE Gen3 x1 M.2 B-key-3040/3050/3052 slot with optional 5G/LTE module selected<br>1x PCIE Gen3 x1 M.2 E-key slot with optional Wi-Fi module selected |
| | Antenna | 4+3 QMA antennas on rear panel |
| | SIM | Dual external accessible SIM slots on rear |
| | Internal Expansion | 1x mPCIE slot expansion |
| Miscellaneous | TPM | TPM 2.0 with 2048-bit RSA |
| | LED | 1x Power (G), 1 x Storage (Y), 1 x WDT (Y) on front panel |
| | Power Connector | IEC 61076 M12 K-coded connector |
| | Power | A2000<br>Power capability:200W; Power input:DC +24-110V; Ignition support:Yes<br><br>A4500<br>Power capability:300W; Power input:DC 110V; Ignition support:Optional |
| | GND | M6 threaded stainless steel stud |
| | Battery | CR2032X coincell battery by default<br>Gold capacitor (optional) |
| | Coating | The conformal coating on AVA-7200 boards is applied by default.<br>Coating on add-on cards is available upon request |
| | MTBF | 216,865 hrs. by Telcordia issue 4 GB, GC |
| Mechanical | Dimensions | 360 mm (W) x 255.7 mm (D) x 99.1 mm (H) |
| | Weight | Est. approx. 9.4kg with wall mount brackets |
| | Mounting | Rack mount<br>Wall mount |
| | Cooling | Fanless design with passive cooling<br>Suggest air convection air flow 1.0m/s |
| | Ingress Protection | EN60529 IP20 |
| Environmental | Operating Temperature | OT1: -25°C - 55°C (EN50155: 2021 OT1 Class, ST1 +15C for 10mins)<br>OT3: -25°C - 70°C (EN50155: 2021 OT3 Class, ST1 +15C for 10mins)<br>Depending on the CPU and GPU MXM module selection and combination.<br>Min. convection air flow 1.0m/s is required to take the heat away,<br>or the CPU and GPU might got throttling and even damage. |
| | Storage Temperature | -40°C to +85°C |
| | Humidity | Operating: 10% to 95% relative humidity (non-condensing)<br>Non-Operating: 5% to 95% relative humidity (non-condensing) |
| | Vibration | EN50155:2021 13.4.10 (Ref. to EN 61373:2010 category 1 class B ) |
| | Shock | EN50155:2021 13.4.10 (Ref. to EN 61373:2010 category 1 class B ) |
| | Safety | EN 50124-1:2017 Compliant<br>EN 50153 Compliant |
| | EMC | EN 50155:2021 Clause 13.4.9<br>With reference to EN 50121-1:2017; EN 50121-3-2:2016<br>EN 50121-4:2016 (upon request)<br>EN 61000-4-2:2009; EN 61000-4-3:2006 + A1:2008 + A2:2010<br>EN 61000-4-4:2012; EN 61000-4-5:2014 + A1: 2017<br>EN 61000-4-6:2014 + AC: 2015 |
| | Fire Protection | EN45545-2:201320+A1:2015 (HL 1-3) EL9 for PCB (R24 / R25) |
| | Compliance | ROHS & REACH Compliance |
| Operating System | | Ubuntu 22.04, 64-bit<br>Windows 10 IoT Enterprise LTSC<br>Other OS upon request |



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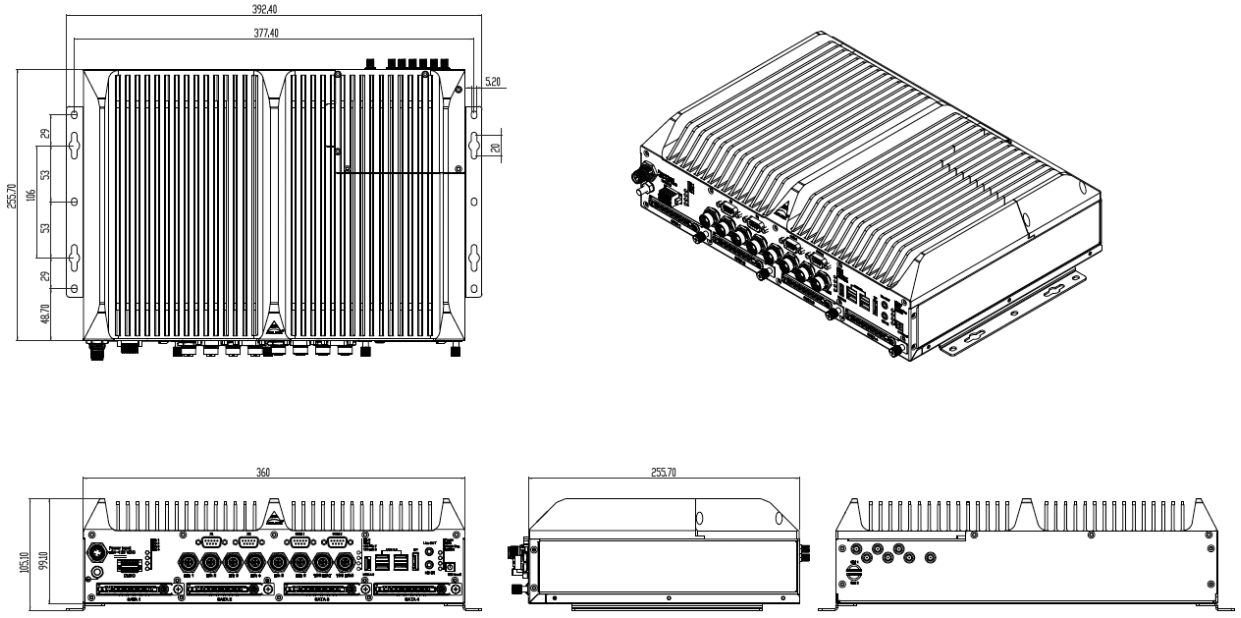
## Ordering Information

| | |
|---|---|
| AVA-7200/5136/64G, CC | Fanless AI box with Intel® Core™ i5-13600HRE. 64GB DDR5, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 200W power, w/conformal coating, w/o GPGPU |
| AVA-7200/5136/32G/A20, CC | Fanless AI box with Intel® Core™ i5-13600HRE, 32GB DDR5, A2000 MXM, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 200W power, w/conformal coating |
| AVA-7200/5136/64G/A20, CC | Fanless AI box with Intel® Core™ i5-13600HRE, 64GB DDR5, A2000 MXM, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 200W power, w/conformal coating |
| AVA-7200/7138/64G, CC | Fanless AI box with Intel® Core™ i7-13800HRE, 64GB DDR5, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 200W power, w/conformal coating, w/o GPGPU |
| AVA-7200/H7138/32G/A45, CC | Fanless AI box with Intel® Core™ i7-13800HRE, 32GB DDR5, A4500 MXM, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 300W power, w/conformal coating |
| AVA-7200/H7138/64G/A45, CC | Fanless AI box with Intel® Core™ i7-13800HRE, 64GB DDR5, A4500 MXM, supporting 8x M12 Ethernet ports, 5x USB, 4x SATA, 300W power, w/conformal coating |

## Optional Accessories

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|---|---|
| AVA-7200 AC-DC Power Supply | 200W AC-DC power adapter with phoenix connector for AV-7200 200W power |
| AVA-7200 Cable Kit | 1x M12 K-coded power cord, 8x M12 X-coded Ethernet cable |
| AVA-7200 Rack Mount Kit | 19" Rack mount kit for AVA-7200 |

## Dimensions






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