

VMS-EHLR

Intel® Atom® x6425E Processor Rugged Fanless Railway System



Specification

| System Information | |
|--------------------|--|
| Processor | Intel® Atom® x6425E |
| System Memory | 1 x 260-Pin SODIMM DDR4 3200MHz up to 32GB |
| I/O Chipset | AMI uEFI BIOS 256 Mbit SPI Flash ROM |
| Watchdog Timer | H/W Reset, 1sec. ~ 65535sec. |
| H/W Status Monitor | Horizontal battery socket Supports wide operating temperature Supports no RTC battery mode |
| TPM | TPM 2.0 (Default) |
| SBC | EBM-EHLR + EBM-EHLR DB-A |
| Expansion | |
| M.2 | 1 x M.2 Key-B 2242/ 3042/ 3052 (PCIe/ USB 3.1 Gen.2), w/SIM slot1 (external) 1 x M.2 Key-E 2230 (PCIe/ USB 2.0) |
| mPCIe | 1 x mPCIe (PCIe/ USB 2.0), w/ SIM slot2 (external) |
| Storage | |
| M.2 | 1 x M.2 key-B 2242 (SATA III) |
| 2.5" Drive Bay | 1 x 2.5" drive Bay (SATA III) |
| Front I/O | |
| USB Port | 2 x USB 3.2 Gen.2 (10Gbp/s) |
| Power Button | Push Button for Power on/off (w/LED) |
| Reset Button | Push Button for Reset (Hidden) |
| LED Indicator | 4 x LED indicator (LAN for active, speed) |
| Digital I/O | 1 x 8-Bit 2.5KV Isolated GPIO in DB-9 |
| CAN Bus | 1 x 4-Pin CAN Bus H/L in DB-9 |
| SIM Slot | 2 x Front Access SIM Slot |
| Antenna | 3 x Antenna Mount |

| Rear I/O | |
|--------------------------|--|
| USB Port | 1 x USB 2.0 in M12-A code connector |
| COM Port | 2 x RS-232/422/385 (BIOS) |
| HDMI | 1 x HDMI 2.0 |
| DP | 1 x DP 1.4 |
| VGA | 1 x VGA |
| Audio | 1 x Line-In, Line-Out and Mic-In in DB-15 |
| LAN Port | 2 x LAN Port in M12-X code connector |
| AC/DC Input | M12-A code (4 Poles: V+, V-, GND, IGN) |
| Left I/O | |
| Antenna | 2 x Antenna Mount |
| Right I/O | |
| Antenna | 2 x Antenna Mount |
| GPS | |
| Chipset | u-blox NEO-M9N GNSS LCC module with Untethered Dead Reckoning and onboard sensors |
| Protocol | BeiDou, Galileo, GLONASS, GPS / QZSS |
| Display | |
| Graphic Chipset | Intel® UHD Graphics |
| Resolution | DP++ 1.4: 4096x2304 @ 60Hz HDMI 2.0: Max. resolution 4096 x 2304 @ 60Hz VGA: 1920 x 1080 @ 60Hz (optional) |
| Audio | |
| Audio Codec | Realtek ALC8885 |
| Ethernet | |
| LAN Chipset | 2 x Intel® I210-IT |
| LED Indicator | 4 x LED indicator (LAN for active, speed) |
| Specification | 10/100/1000Base-T |
| Power Requirement | |
| ACPI | Single power ATX Support S0,S3, S4, S5 ACPI 5.0 Compliant |
| Power Mode | AT/ATX (AT default), w/ignition control and power management |
| Mechanical & Environment | |
| Operating Temp. | -40°C ~ 70°C (w/SSD) ambient w/ air flow. Follow EN50155, Class OT4 |
| Storage Temp. | -30°C ~ 70°C (-22°F ~ 158°F) |
| Operating Humidity | 40°C @ 95% Relative Humidity, Non-condensing |
| Dimension (W*L*H) | 240*150*55 mm |
| Weight | 2.2kg |

Vibration Test Operating with SSD : MIL-STD-810G, Method 514.6, Category 4, common carrier US highway truck vibration exposure

Shock Test Operating with SSD: MIL-STD-810H, Method 516.8, Procedure I, functional shock=20G

IP Rating IP50

Mounting Kit Wall Mount Kit (standard)
DIN RAIL (optional)

Software Support

OS Information Win 10 64bit / Linux

Certification

Certification Information CE, FCC Class A, UKCA, EN50155, EN50121, EN45545