

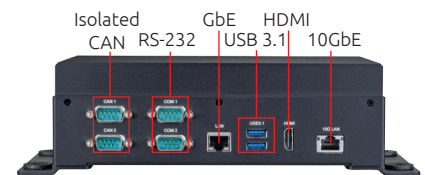
AVA-XV-V1

NVIDIA® Jetson AGX Xavier™ AI GMSL2 Platform for Autonomous Drive Applications

Features

- NVIDIA® Jetson AGX Xavier™ module
- 8x Gigabit Multimedia Serial Link 2 (GMSL2), through 2x 1*4 mini Fakra typeZ
- Customizable ignition setting
- 2x Isolated CAN
- 1x 10GbE, 1 x GbE ports
- 2x USB 3.1
- 1x Mini PCIe for LTE or Wi-Fi module
- 9-36 VDC input with ignition control

Preliminary



Specifications

System

NVIDIA® Jetson AGX Xavier™ ARM-based processor
 512-core Volta™ architecture @ 1.37GHz
 64 tensor cores
 5.5-11 TFLOPS (FP16)
 20-32 TOPS (INT8)

Memory on module

32 GB 256-bit LPDDR4x 136.5GB/s
 Storage on module
 32GB eMMC 5.1

Graphics

1x HDMI 2.0a

GMSL2

8x GMSL2 (2x 1*4 mini Fakra, type Z)

Ethernet

1x 10GbE Ethernet port
 1x 1GbE-T Ethernet ports

CAN

2x Isolated CAN
 CANbus 2.0B

Serial Ports

2x RS-232

Extension

1x mini PCIe full function

USB

2x type A USB 3.1

Power Consumption

50 W (max)

Mechanical

225mm x 150mm x 75mm (WxDxH, without mounting kit)
 Cold plate design with backup thermal solution for external cooling

Environmental

Operating Temperature

-10°C to 55°C

Storage Temperature

-40°C to 85°C

Humidity

10% to 90% non-condensing

Shock/ Vibration (operating)

MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II

MIL-STD-810G, Method 514.6, Category 4

3 Grms, 5-500 Hz, 3 axes

EMC

CE: EN 61000-6-4 & EN 61000-6-2, Class A

FCC: FCC 47 CFR Part 15 Subpart B, Class A

Operating System

Ubuntu 18.04

Ordering Information

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Advanced driver assistance system with NVIDIA Jetson AGX Xavier Edge AI GPU, 8x GMSL2, 1x 10GbE, 2x RS-232, 2x USB 3.1, 1x HDMI