

AITAS-EN302

AI Technology of APLEX Solution

Industrial Panel PC

HMI Cotroller

Industrial Display Monitor

AI



Features

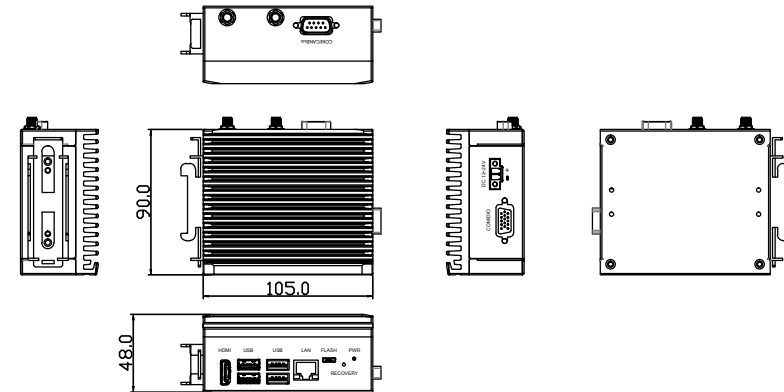
AITAS-EN302, powered by Jetson Orin NX 8G, is a reliable and powerful AI inference device designed for edge applications. It delivers full bandwidth and power capabilities, efficiently scaling video inputs for seamless AI inference. Key features include:

- NVIDIA Jetson Orin NX 8GB
- 1 x M.2 3052 B-Key for M.2 2242 B+M Key SSD
- 1 x RJ-45 GbE Ports
- Wide Power Input Range 12~24V DC
- Operating temperature -15°C ~ +55°C
- Fanless Design

Specifications

System	
Module Compatibility	NVIDIA Jetson Orin NX 8GB
AI Performance	70 TOPS
GPU	1024 Core NVIDIA Ampere, with 32 Tensor Cores
CPU	6-core Arm Cortex-A78AE v8.2 64-bit 2MB L2 + 4MB L3
Memory	8GB 128-bit LPDDR5 102.4 GB/s
Storage	1 x M.2 3052 B-Key for M.2 2242 B+M-Key SSD (default storage) 1 x M.2 2230 E-Key (optional)
Display	1 x HDMI 2.0 Type A
LAN	1 x RJ-45 GbE Port
USB	2 x USB 3.2 Gen2 Type A (supports up to 10Gbps shared) 2 x USB 2.0 (Type-A) 1 x Micro USB (for OS Flash)
I/O Interfaces	1 x DB-9 for RS-232 (Rx/Tx/CTS/RTS)/485 / 1 x CANBus FD 1 x DB-15 for RS-232 (Rx/Tx)/422/485 / 8 x DIO 2 x Antenna
Expansion	1 x M.2 3042/3052 B Key (4G/5G/M.2 2242 B+M-Key Storage) 1 x M.2 2230 E-Key (Wi-Fi/BT/storage) 1 x SIM slot
MISC. Function	1 x Recovery Button
OS Support	Ubuntu 22.04 LTS (NVIDIA Jetpack 5.0 up)

Dimensions



UNIT: mm
Tolerance: ±0.5

Power Supply	
Power Input /Connector	DC-in 12~24V DC / 2 pins terminal block
Power Consumption	Full Loading: 60W

Operating Environment	
Certification	CE / FCC Class A
Environmental Spec	Operating Temp.: -15~55°C (-5~131°F) with 0.5 m/s air flow Storage Temp.: -40~85°C (-40~185°F)

Dimensions and Weight	
Height	49 mm
Width	105 mm
Depth	90 mm
Mounting	Wall Mount, Din Rail

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

US

sales@assured-systems.com

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660