# MIB-742-AT

## AI Inference SBC Powered by NVIDIA® Jetson Thor™



## Features

- Supports NVIDIA® Jetson T5000™ / Jetson T4000™ up to 2070 TFLOPS(FP4)
- Supports 1 x QSFP28 (T5000: 4 x 25GbE / T4000: 3 x 25GbE)
- Supports 1 x 5GbE, 4 x USB 3.2 Gen 2, 1 x M.2 AEkey(WiFi), 1 x M.2 Bkey(LTE)
- Support 4 x CANbus, 1 x I2C
- Support Total 8-ch GMSL2.0 with mini FAKRA connectors

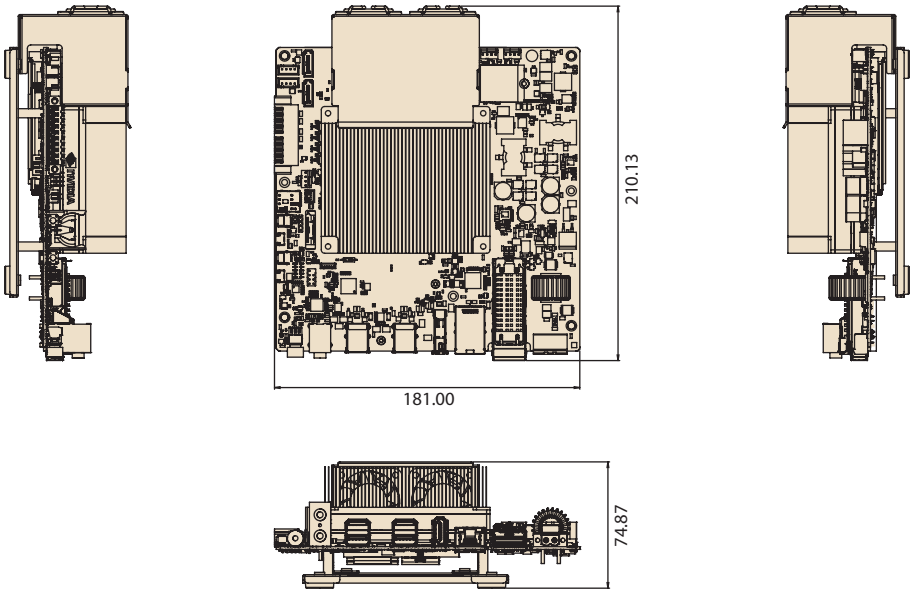
## Specifications

| | | |
|---|---|---|
| Process | | NVIDIA® Jetson T5000™ / Jetson T4000™ |
| | CPU | Jetson T5000: 14-core Arm® Neoverse V3AE (64-bit) SMP CPU architecture<br>L1 Cache (I, D) per core: 64KB + 64KB, L2 1MB, L3 16MB<br>Jetson T4000: 12-core Arm® Neoverse V3AE (64-bit) SMP CPU architecture<br>L1 Cache (I, D) per core: 64KB + 64KB, L2 1MB, L3 16MB |
| | GPU | Jetson T5000: 2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores<br>Jetson T4000: 1536-core NVIDIA Blackwell architecture GPU with 64 fifth-gen Tensor Cores |
| | Memory | Jetson T5000: 128GB LPDDR5X<br>Jetson T4000: 64GB LPDDR5X |
| Ethernet | RJ45 | 1 x 10/100/1000/2500/5000 Mbps Ethernet |
| | QSFP28 | 4 x 25GbE |
| I/O | Display | HDMI (Max. resolution 3840x2160 @ 60Hz) |
| | USB | 4 x USB 3.2 Gen 2 |
| | OTG USB | 1 x Micro USB |
| | Console | 1 x microUSB console for debug (UART to USB) |
| | Audio | 1 x audio speaker out, MIC in on board |
| | CANbus | 4 x CAN FD (T5000 only) |
| | GMSL (optional) | 4 x MIPI 4 lanes (Support 8-ch GMSL2.0 with mini FAKRA connectors) |
| | I2C | 1 x I2C |
| | SIM card | 1 x Nano SIM on side of board |
| Expansion | M.2 Ekey | 1 x 2230 E-key (Signal: PCIex1 + USB2.0) |
| | M.2 Bkey | 1 x 3052/3042 B-key (Signal: USB3.0 + USB2.0) |
| | SATA | 2 x SATA connector |
| | TPM | 1 x TPM (onboard) |
| Storage | M.2 M.key | 1 x 2280 M-key NVMe (PCIex4) (pre-installed 1T SSD on A1 SKU) |
| Power | Power Supply | Power input: 19-36V |
| | Power Type | Terminal Block 2 Pin |
| | Internal pin header | 3 x SMART FAN |
| Environment | Operational Temperature | -10 ~ 60 °C with 0.7 m/s air flow |
| | Operating Humidity | 95% @ 40 °C (non-condensing) |
| | Vibration | 3 Grms @ 5 ~ 500 Hz, random, 1 hr/axis |
| Mechanical | Dimensions (W x D x H) | 180 x 180 mm |
| | Weight | 1kg |
| | Installation | Wall mount |
| Operating System | | NVIDIA Jetpack™ 7.0 |
| Certifications | | CE/FCC |


All product specifications are subject to change without notice.
Last updated: 2-Oct-2026

## Dimensions

Unit: mm




## Ordering Information

| Part Number | NVIDIA Module | Memory | eMMC | Installed Jetpack version | NVMe |
|---|---|---|---|---|---|
| MIB-742-AT7A1 | NVIDIA® Jetson T5000™ | 128 GB | NA | JetPack 7.0 and above | 1TB Pre-installed |
| MIB-742-AT6A1 | NVIDIA® Jetson T4000™ | 64 GB | NA | JetPack 7.0 and above | 1TB Pre-installed |
| MIB-742-AT7A2 | NVIDIA® Jetson T5000™ | 128GB | NA | NA | NA |
| MIB-742-AT6A2 | NVIDIA® Jetson T4000™ | 64GB | NA | NA | NA |

## Packing List

| Part Number | Description | Quantity |
|---|---|---|
| MIB-742-AT | AI Inference SBC with SOM | 1 |
| 1700023619-01 | Micro USB cable for system recovery | 1 |
| 1652008236-01 | Terminal Plug 20P for CANbus | 1 |
| 1652002202 | Plug-in Block 2P for power | 1 |
| 1930005673-11 | Screws for 5G/ WIFI Module | 2 |

## Optional

| | Part Number | Description | Quantity |
|---|---|---|---|
| SSD | 96FD80-P2TB-TS1 | SSSTC M.2 2280 2TB NVME G4x4 DRAMLESS SSD -25°C ~85°C | 1 |
| GMSL2 frame grabber | MIC-FG-8G2C1 | 8CH GMSL2 frame grabber with mini FAKRA | 1 |
| | 1751000758-01 | RF Cable MINI FAKRA B-Z/F FAKRA-Z/M 1x4 BLK L300 | 1 to 4 cameras |
| | 1751000805-01 | Cable Ant. FAKRA-Z/F FAKRA-Z/F KS302 BLK L15M | 1 (by camera quantity) |
| | 1700026907-01 | Cable 1x4P-2.0/1x4P-2.0 10CM (Internal power cable for GMSL) | 1 |
| Wifi | EWM-W179M201E | Wi-Fi 6 + BT Module M.2 Key A/E | 1 |
| | 1751000620-01 | Cable Ant. SMA/F-R MHF4L/113 BLK L300mm (Wi-Fi) | 2 |
| | 1751000460-01 | Dipole Ant. WiFi 6E SMA/M-R BLK L111.7mm IP54 (Wi-Fi) | 2 |
| 5G | AIW-356-DQ | 5G Sub6+GNSS M.2 3052 Key B (by region) | 1 |
| | 1751000623-01 | Cable Ant. SMA/F MHF4L/113 BLK L300mm (5G) | 4 |
| | 1750009372-01 | Ant.SMA/M 90/180 5G BLK 167mm RG178 (5G) | 4 |
| Power adapter | XMIC-FSP230-AAAN3 | ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 2P | 1 |
| Power Cord | 1702002600 | Power Cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83 M | 1 |
| | 1700029019-01 | Power Cord (PSE/BSMI), 3-pin, 7A, 125V, 1.8 M, DAC-ST01 | 1 |
| | 1702002605 | Power Cord (EU) 2-pin, 10/16A, 220V, 1.83 M, 90 D | 1 |