

Edge AI GPU Computing



EBOX-7000

Taiwan Patent No. M447854, M592609, M601447

Intel 9th Gen Core i7/ Intel 8th Gen Core i7/i5/i3 CPU w/ 6 x RJ45 GbE (optional 4 x PoE Max. 100W) / 4 x COM / 1 x DP/ 1 x HDMI/ 1 x DVI-I/ 4 x USB 3.2 Gen 1x1/ 9-48V Edge AI GPU Computing

Features

- Intel 9th Gen Core i7/ Intel 8th Gen Core i7/i5/i3
- 1 x PCle 3.0 x16 Interface Expansion (optional 2 x PCle 3.0 x8 Interface)
- 6 x RJ45 GbE (optional 4 x PoE Max. 100W)
- 8 x DI, 4 x DO and 2 x RS-232/422/485
- 1 x DP + 1 x HDMI + 1 x DVI-D (Single Link w/o Analog Video)
- Dual Hot Swappable SATA Storage RAID 0,1,5
- 9-48V DC Input and Operating Temp.: -40~70°C
- TPM 2.0



Please Scan The QR Code For More Information

Introduction

The EBOX-7000 Edge Computing is suitable for various factory automation and Industrial Internet of Things (IIoT) control system in large-scale processes such as mining and manufacturing. It is powered by Intel 9th Gen Core i7/ Intel 8th Gen Core i7/i5/i3 CPU with 6 x RJ45 GbE (optional 4 x PoE Max. 100W).

EBOX-7000 features TPM 2.0 and memory 2 x DDR4 2400/2666 MHz SO-DIMM up to 64GB. Furthermore, the environmental tolerance continually maintains a wide range of operating temperatures (-40 \sim 70 °C). In addition, it provides Intel® UHD Graphics 630 with max resolution (HDMI): 4096x2304@24Hz.

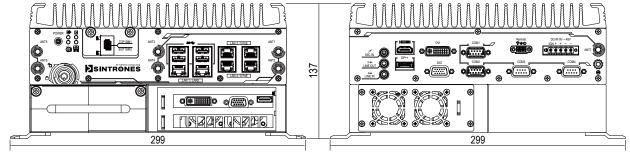
All specifications are subject to change without notice.



FROX-7000

Dimensions





Specifications

| System | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU | Intel Gen9 Core i7-9700TE (12M Cache 1.8GHz up to 3.8GHz) |
| CFU | Intel Gen8 Core i7-9700T (12M Cache 1.0GHz up to 4.0GHz) |
| | , , , |
| | Intel Gen8 Core i5-8500T (9M Cache 2.1GHz up to 3.5GHz) |
| | Intel Gen8 Core i3-8100T (6M Cache 3.1GHz) |
| | Intel Gen8 Celeron G4900T (2M Cache 2.9GHz) |
| Memory | 2 x DDR4 2400/2666 MHz SO-DIMM up to 64GB |
| LAN Chipset | 5 x Intel i210-AT and 1 x i219 (iAMT9.5 w/ i5, i7 only) Gb/s Ethernet Controllers Onboard Support PXE and WOL |
| Watchdog | 1 ~ 255 Level Reset |
| TPM | 2.0 |
| I/O | |
| Serial Port | 4 x RS 232/422/485 (Auto Direction Control) |
| USB Port | 4 x USB 3.2 Gen 1x1 Ports |
| LAN | 6 x RJ45 GbE (optional 4 x PoE Max. 100W) |
| Video Port | 1 x DP + 1 x HDMI + 1 x DVI-D (Single Link w/o Analog Video) |
| DIO Port | 8 x DI (5~48VDC) and 4 x DO (5VDC, 100mA) |
| Audio | 1 x Line-out, 1 x Line-in and 1 x Mic-in |
| Expansion Bus | Riser card w/ 1 x PCle x16 slot (1 x PCle 3.0 x16 interface w/ 1 x ATX 6 Pin Power Output) Optional riser card w/ 2 x PCle x16 slot (2 x PCle 3.0 x8 interface w/ 1 x ATX 6 Pin Power Output) *Supports up to 185mm in length and 112mm in height PCle cards *Maximum power supply from PCle slot and ATX 6 pin combined @ 150W when DC power source is above 15V *DC 15V or above power source is suggested when graphics cards are installed |
| | 2 x Full Mini-PCle Slots |
| | 1x M.2 A-E Key 2230 slot, 1 x M.2 B Key 3042 slot w/ 2 x SIM Card Sockets for WWAN Patent No.: M592609 - Automatic SIM Card Detection |
| Graphics | |
| CPU Built-in Graphics | Intel® UHD Graphics 630 for i7/i5/i3, Intel® UHD Graphics 610 for G5900T |
| | Max Resolution (DP1.2) : 4096x2304@60Hz, (HDMI1.4b) : 4096x2304@24Hz |

| Software | | |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Operating System | Win 10, Ubuntu 18.04 64bit | |
| Environmental | | |
| Operating Temp. | -40°C ~ 70°C, with SSD and ambient w/ air flow 0.6m/s (System only, not including PCle cards) -20°C ~ 60°C with BAT-5200-E1 Battery Kit *Operating temp. spec of PCle cards installed affects overall system operating temp. spec | |
| Storage Temp. | -40°C ~ 80°C | |
| Relative Humidity | 10% RH – 90% RH (non-condensing) | |
| Certifications | CE, FCC Class A, RoHS (Self declaration) | |
| Storage | | |
| Туре | Hot Swappable 2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 w/ External Accessibility via USB 3.2 Gen 1x1 when removed Patent No.: M601447 - Removeable Storage Device 1 x M.2 M key 2280 slot supports NVMe and SATA SSD "Thermal heatsink is required for M.2 storage. Please contact sales window for more information. | |
| Power Requirement | | |
| Power Input | 9V - 48V DC Power Input | |
| Power Protection | Automatics Recovery Short Circuit Protection | |
| Power Mgmt. | Vehicle Power Ignition for Variety Vehicle | |
| Power Off Control | Power off Delay Time Setting by BIOS and Software | |
| Battery (UPS) | Internal Battery Kit for 10 Mins Operating (Optional and cannot be installed with PoE module) *UPS backup time varies depending on actual overall system power consumption. Patent No.: M447854 - Build-in Battery | |
| Mechanical | | |
| Construction | Aluminum Alloy | |
| Mounting | Wall-mount | |
| Weight | 7600g (Barebone) | |
| Dimensions | 260(L) x 250(W) x 137(H) mm | |

Ordering Information

| Part Number | EBOX-7000xyy-zz (x= P= w/PoE, x= Empty= w/o PoE, yy= E1= w/1 x PCle x16 interface, yy= E2= w/2 x PCle 3.0 x8 interface, zz= i7R= i7-9700TE, zz= i7= i7-8700T, zz= i5= i5-8500T, zz= i3= i3-8100T, zz= C1= G4900T) | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Description | Intel 9th Gen Core i7/ Intel 8th Gen Core i7/i5/i3 CPU w/ 6 x RJ45 GbE (optional 4 x PoE Max. 100W) / 4 x COM / 1 x DP/ 1 x HDMI/ 1 x DVI-I/ 4 x USB 3.2 Gen 1x1/ 9-48V Edge AI GPU Computing | |
| State of Origin | Made in Taiwan | |

Optional Accessories

| DRAM | DDR4-2933 MHz SO-DIMM, 4GB~32GB, 0~70°C/-40~85°C |
|--------------------|---------------------------------------------------------|
| DIVANI | DDIA 2000 WII IZ OO DIIWIW, 40B 020B, 0 10 0/ 40 00 0 |
| SSD | M.2 2280 B-M key NVMe TLC -40~85°C 64GB~1TB w/ Heatsink |
| | M.2 2280 B-M key SATA TLC -40~85°C 64GB~1TB w/ Heatsink |
| | 2.5 inch SATA TLC -40~85°C 64GB~2TB |
| PCle Graphics Card | GTX 1650 4GB GDDR5 w/ 1 x DP1.4a, 1x HDMI2.0b, and 1x |
| | DVI-D Dual Link |
| Wifi | M.2 2230 A-E key 802.3 a/b/g/n/ac |

| Modem | M.2 3042 B key 5G<E module |
|--------------------|-----------------------------------------------------------------------------------------|
| GPS | MiniPCle GPS module |
| CANBUS | MiniPCle CANBUS module |
| Battery backup kit | BAT-5200-E1 Battery Kit, 5200m/h, -30~60°C, discharge -20~60°C, operating about 10 mins |
| External cable | 280W/24V power adaper |
| Power adapter | N/A |

All specifications are subject to change without notice.



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