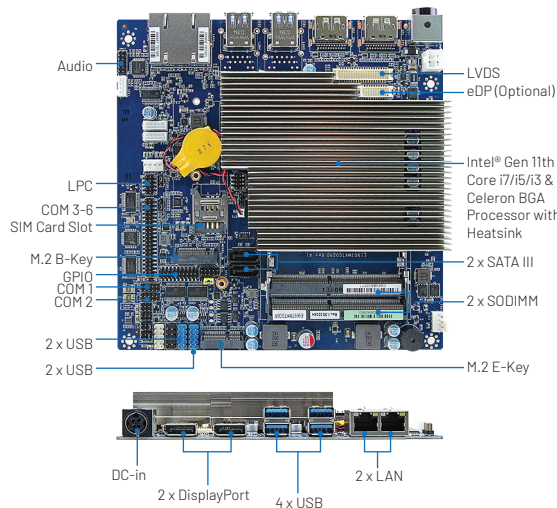


Coming Soon

Features

- Onboard Intel® Gen 11th Core™ SoC i7/i5/i3 & Celeron BGA Processor
- 2 x 260-pin DDR4 3200 MHz SO-DIMM supports up to 64GB (non ECC only)
- Supports up to 4 Independent Displays via 2/4 DP++, LVDS/eDP
- 1 x Intel® I225-IT 2.5 Gigabit Ethernet
- 1 x Intel® I219-LM Gigabit Ethernet PHY
- Optional 2 x Intel® I210-IT Gigabit Ethernet
- Realtek HD Audio
- TI TPA3113D2PWP Stereo Class-D 6W x 2 Audio Amplifier
- 1 x M.2 B-Key 3042/3052/2242/2260/2280 (1 x PCIe x1(Default) or SATA, USB 3.0 with 1 x SIM card slot, supports WWAN+GNSS or NVMe SSD
- 1 x M.2 E-Key 2230 supports Wi-Fi Module and CNVi (1 x PCIe x1 and USB 2.0 Signal)
- 6 x COM Ports, 8 x USB
- 16-bit GPIO
- Onboard NuvoTon supports TPM 2.0
- DC in +12V~24V



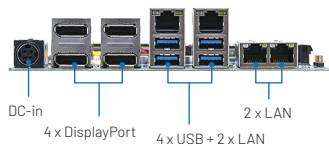
Specifications

System	
CPU	Intel® Core™ i7-1185G7E, i7-1185GRE (up to 4.4GHz, quad-core, 12M Cache, TDP: 28/15/12W)* Intel® Core™ i5-1145G7E, i5-1145GRE (up to 4.1GHz, quad-core, 8M Cache, TDP: 28/15/12W)* Intel® Core™ i3-1115G4E, i3-1115GRE (up to 3.9GHz, dual-core, 6M Cache, TDP: 28/15/12W)* Intel® Celeron® 6305E (up to 1.8GHz, dual-core, 4M Cache, TDP: 15W)
System Memory	2 x 260-pin DDR4 3200MHz SODIMM support up to 64GB
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
System Memory	2 x SODIMM sockets support Dual Channel DDR 5 4800MHz up to 64GB
Expansion	1 x M.2 B-Key 3042/3052/2242/2260/2280 (1 x PCIe x1(Default) or SATA, USB 3.0 with 1 x SIM card slot, supports WWAN+GNSS or NVMe SSD *SATA 2 share with M.2 key B SATA 1 x M.2 E-Key 2230 supports Wi-Fi Module and CNVi (1 x PCIe x1 and USB 2.0 Signal)
TPM	Onboard NuvoTon supports TPM 2.0
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	CPU Temperature Monitoring, Voltages Monitoring, CPU Fan Speed Control
Supported OS	Win10 64-bit, Linux
Display	
Graphic Chipset	Intel® 12th Generation CPU integrated
Interface	DP1+DP2 (DP1.4): Max: 7680 x 4329 @60 Hz DP3+DP4 (DP1.4): Max: 7680 x 4329 @60 Hz Single DP port (2021/2 Lab test): 5120 x 2160 @60 Hz, DVT check Max: 7680 x 4329 @60 Hz Note: This resolution is from the actual test result. Intel® resolution as below: 2 x DP++: 1920 x 1080 @60 Hz 2 x DP: 4096 x 2304 @60 Hz LVDS: 1920 x 1080 eDP: 4096 x 2304 @60 Hz
LVDS	Dual Channel 18/24bits LVDS 1920x1080 Chrontel. CH7511B eDP to LVDS Converter
Multi-Display	Supports up to 4 Independent Display

Audio	
Audio Codec	Realtek HD
Interface	Line-out, Mic-in, Front Audio Pin-header
Amplifier	2 x Stereo Class-D 6W Audio Amplifier
Ethernet	
LAN 1	Intel® I219-LM (1GbE) Gigabit Ethernet Controller
LAN 2	Intel® I225-IT (2.5GbE) Ethernet Controller
LAN 3 (Optional)	Intel® I210-IT (1GbE) Gigabit Ethernet Controller
LAN 4 (Optional)	Intel® I210-IT (1GbE) Gigabit Ethernet Controller
External I/O - Single Stacked Version (Thin Mini-ITX)	
Display	2 x DisplayPorts
USB	3 x USB 3.1 Gen2 and 1 x USB 3.1 Gen 1
LAN	2 x RJ45
DC-in	1 x DC-in
External I/O	
Display	4 x DisplayPorts
USB	3 x USB 3.1 Gen2 and 1 x USB 3.1 Gen 1
LAN	4 x RJ45
DC-in	1 x DC-in
Internal I/O	
LVDS/eDP	1 x LVDS connector, Optional eDP
USB	2 x USB 2.0 Headers (4 Ports)
COM Ports	4 x RS232 Headers, 2 x RS232/422/485 Headers
GPIO	1 x 8-bit GPIO Header
SATA	2 x SATA III Connectors
Other	1 x LPC, 1 x SPI, 1 x Front Audio, 1 x Front Panel, 1 x 4-Pin CPU Fan, Audio AMP

Optional SKU

With 4 x DisplayPorts and 4 x LAN Ports



Mechanical & Environment

Power Requirement	12V-24V Wide Range DC-In
Operating Temp.	Intel® Wide Temp CPU SKU: -20°C ~ 60°C (-4°F ~ 140°F) Intel® CPU SKU: 0°C to 60°C (32°F ~ 140°F)
Form Factor	Mini-ITX
Dimensions	6.7" x 6.7" (170mm x 170mm)
Certification Information	CE, FCC Class B
Weight	0.88 lbs (0.4 kg)

Ordering Info

EMX-TGLP-S15-A1R	with Intel® Core-i3 Processor, Thin Mini-ITX, 2 x DP, 2 x LAN Ports, Standard Temp.
EMX-TGLP-S45-A1R	with Intel® Core-i5 Processor, Thin Mini-ITX, 2 x DP, 2 x LAN Ports, Standard Temp.
EMX-TGLP-S85-A1R	with Intel® Core-i7 Processor, Thin Mini-ITX, 2 x DP, 2 x LAN Ports, Standard Temp.
EMX-TGLP-W15-A1R / E1961121280000R	with Intel® Core-i3 Processor, 4 x DP, 4 x LAN Ports, Wide Temp.
EMX-TGLP-W45-A1R / E1961121280000R	with Intel® Core-i5 Processor, 4 x DP, 4 x LAN Ports, Wide Temp.
EMX-TGLP-W85-A1R / E1961121280000R	with Intel® Core-i7 Processor, 4 x DP, 4 x LAN Ports, Wide Temp.
Included Accessory	1 x SATA Cable 1 x SATA Power Cable 1 x I/O Shield

* All product specifications and images are subject to change without notice. Last update: 2022/04/12



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