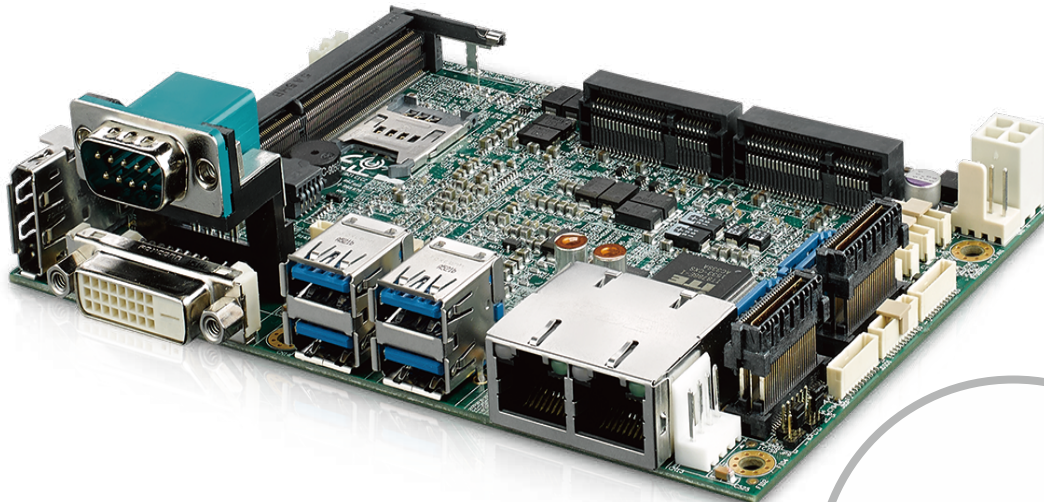


EMBC-1000 Series

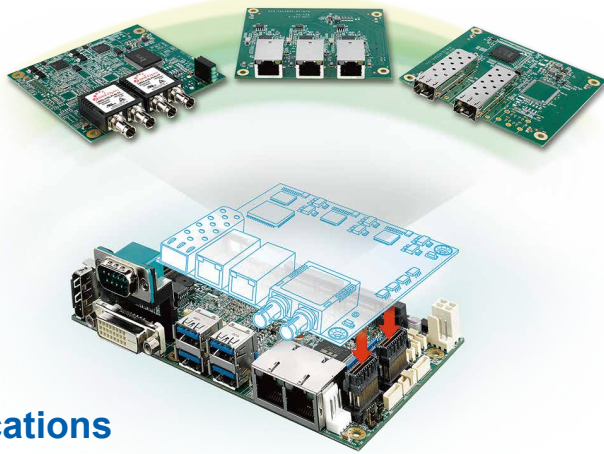
3.5" Embedded Single Board Computer with Intel® Core™ i7/i5/i3 U-series SoC (Kaby Lake/Skylake), DDR4 Memory, 2 Gigabit LAN, 4 USB 3.0, 5 COM, 16 GPIO, 2 Mini PCIe, SUMIT A, B, High Performance, Fanless, Extended Temperature



- Intel® Core™ i7/i5/i3 U-series SoC (Kaby Lake-U/Skylake-U), up to 3 independent Full HD displays
- DDR4 2400/2133 MHz memory, up to 32GB
- Onboard DP, DVI and dual channel 24-bit LVDS display interface
- 4 USB 3.0, 5 COM, 16 GPIO
- Supports full function SUMIT A, B expansion
- 9V to 36V DC Power Input
- Fanless, -40°C to 85°C Operating Temperature
- Dual Independent GigE LAN supports iAMT 11.0
- 2 Mini PCIe Socket for 3G/4G/LTE/WiFi/GPRS/UMTS
- Easy to customize for low-profile system applications
- One-stop SUMIT Expansion Design and Manufacturing Services

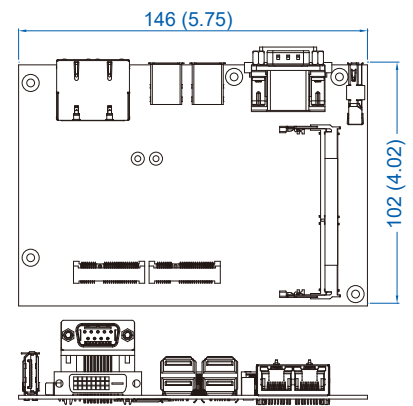


Versatile & Scalable SUMIT Expansion



Dimensions & Drawing

Unit: mm (inch)



Specifications

System

Processor	Intel® Core™ i7/i5/i3/Celeron® U-series Processor (Kaby Lake-U/Skylake-U, up to 4M Cache, 3.9GHz)
Chipset	Intel® SoC (Kaby Lake/Skylake)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 2400/2133 MHz SO-DIMM, up to 32GB

Graphics

Processor	Intel® HD Graphics 620/520
Interface	<ul style="list-style-type: none"> DVI-D : Up to 1920 x 1080 DisplayPort : Up to 3840 x 2160 LVDS : Dual channel 24-bit, up to 1920 x 1200

Ethernet

LAN 1	Intel® I219LM Gigabit LAN supports iAMT 11.0
LAN 2	Intel® I210 Gigabit LAN

Audio

Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Line-in, 1 Line-out, 1 Mic-in

I/O Interface

Front I/O	<ul style="list-style-type: none"> 1 DVI-D Connector 1 DisplayPort Connector 4 USB 3.0 Connector 2 RJ45 Connector 1 COM RS-232/422/485 DB9 Connector
Internal I/O	<ul style="list-style-type: none"> 1 ATX 4-Pin Power Connector 1 SUMIT A Connector 1 SUMIT B Connector 4 COM RS-232/422/485 Connector 2 Mini PCIe Connector 1 SIM Card Socket 1 DDR4 SO-DIMM Socket 1 LVDS Connector 1 LVDS Backlight Connector 2 SATA Connector 1 SATA Power Connector 2 USB 2.0 Connector for 4 USB Port 1 GPIO Connector 1 Fan Connector

Storage

SATA	2 SATA III (6Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)

Expansion

SUMIT	<ul style="list-style-type: none"> 1 SUMIT Connector A (Internal) 1 SUMIT Connector B (Internal)
Mini PCIe	<ul style="list-style-type: none"> 2 Mini PCIe Socket : 1 Mini PCIe for PCIe/USB/SIM Card 1 Mini PCIe for PCIe/USB/Optional mSATA

Power

Power Input	9V to 36V, DC-in
Power Interface	ATX Power Connector

Others

Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Management	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Software Support

OS	Windows 10, Window 8.1, Window 7, Linux
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Mechanical

Dimensions (WxH)	146mm x 102mm (5.75" x 4.02")
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Environment

Operating Temp.	-40°C to 85°C (-40°F to 185°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 85°C
EMC	CE, FCC

Packing List

EMBC-1000 SBC	x1
Driver/User Manual DVD	x1
Cable Kit	x1
<ul style="list-style-type: none"> COM Port Cable SATA Data Cable SATA Power Cable USB 2.0 Cable Audio Cable 	<ul style="list-style-type: none"> x2 x1 x1 x1 x1

Order Information

EMBC-1000-7600U	• EMBC-1000 SBC, onboard Intel® Core™ i7-7600U (Kaby Lake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
EMBC-1000-600U	• EMBC-1000 SBC, onboard Intel® Core™ i7-6600U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
EMBC-1000-300U	• EMBC-1000 SBC, onboard Intel® Core™ i5-6300U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
EMBC-1000-100U	• EMBC-1000 SBC, onboard Intel® Core™ i3-6100U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
EMBC-1000-955U	• EMBC-1000 SBC, onboard Intel® Celeron® 3955U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 2 USB 2.0
EMBC-1000E-600U	• EMBC-1000 SBC, onboard Intel® Core™ i7-6600U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, SUMIT

SUMIT Card (for EMBC-1000E Series only) :

ESM-100	• SUMIT Card with 3 Mini PCIe
LSM-100	• SUMIT Card with 3 Gigabit LAN
FSM-200	• SUMIT Card with 2 Gigabit Fiber LAN

Optional Accessories

61-13Q1009-0DA	• COM Port Cable
61-13B0707-386	• SATA Data Cable
61-13P0430-08A	• SATA Power Cable
61-193102U-156	• USB 2.0 Cable

61-13T10LM-3CG	• Audio Cable
61-13S33KM-3CG	• KB/MS Cable
75-VI1HSK3-S10	• Heat Sink
75-VI1HSP4-S10	• Heat Spreader

EMBC-1000-20210322

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