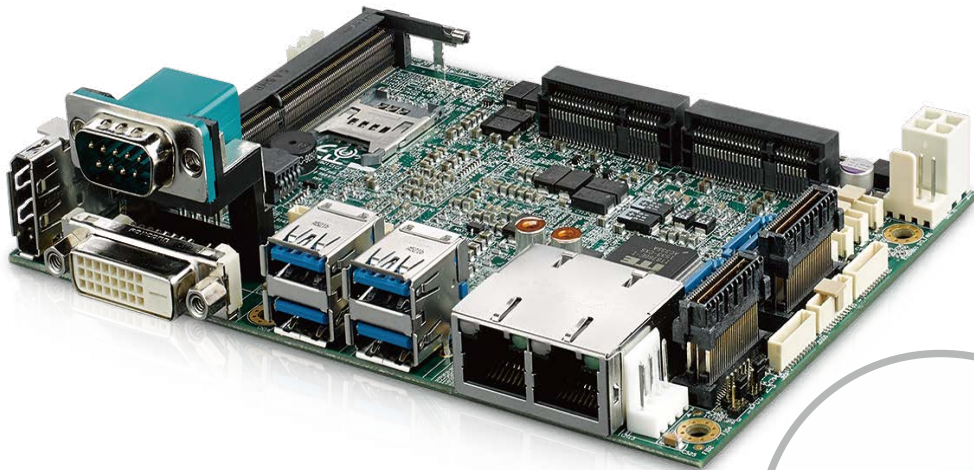


BP-EMBC1000 Serie

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



Healthcare Service

Smart Automation

Point-of-Information (POI)

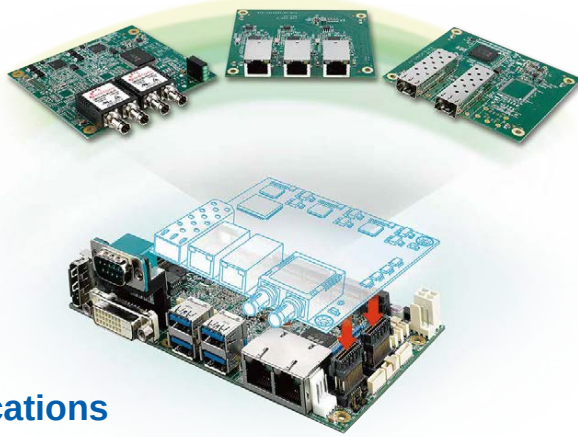
In-vehicle Infotainment

Self-Service



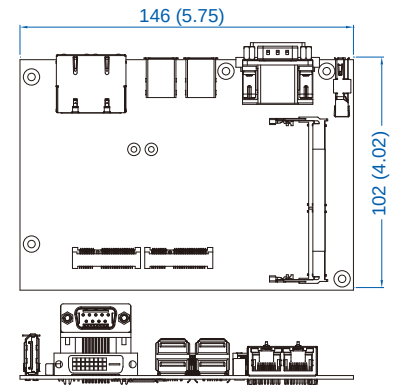
Vecow

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	- 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	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	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	1 SUMIT Connector A (Internal) 1 SUMIT Connector B (Internal)
Mini PCIe	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
Mechanical	
Dimensions (WxH)	146mm x 102mm (5.75" x 4.02")
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	
BP-EMBC1000 SBC	x1
Driver/User Manual DVD	x1
Cable Kit	x1
	- COM Port Cable x2 - SATA Data Cable x1 - SATA Power Cable x1 - USB 2.0 Cable x1 - Audio Cable x1

Order Information

BP-EMBC1000-7600U	• BP-EMBC1000 SBC, onboard Intel® Core™ i7-7600U (Kaby Lake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
BP-EMBC1000-6000U	• BP-EMBC1000 SBC, onboard Intel® Core™ i7-6600U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
BP-EMBC1000-3000U	• BP-EMBC1000 SBC, onboard Intel® Core™ i5-6300U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
BP-EMBC1000-1000U	• BP-EMBC1000 SBC, onboard Intel® Core™ i3-6100U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 4 USB 2.0
BP-EMBC1000-955U	• BP-EMBC1000 SBC, onboard Intel® Celeron® 3955U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, 2 USB 2.0
BP-EMBC1000E-6000U	• BP-EMBC1000 SBC, onboard Intel® Core™ i7-6600U (Skylake-U), 2 GbE LAN, 5 COM, 4 USB 3.0, SUMIT

SUMIT Card (for BP-EMBC1000E 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	61-13T10LM-3CG	• Audio Cable
61-13B0707-386	• SATA Data Cable	61-13S33KM-3CG	• KB/MS Cable
61-13P0430-08A	• SATA Power Cable	75-VI1HSK3-S10	• Heat Sink
61-193102U-156	• USB 2.0 Cable	75-VI1HSP4-S10	• Heat Spreader

BP-EMBC1000-20210322

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