



SB-244-2J64

Industrial Fanless PC w/ Intel® Elkhart Lake Celeron® J6412 Processor & Discrete TPM



Features

- Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
- 1 x SDRAM DDR4 3200 MHz (max. 32G)
- Support 4 Gigabit LAN
- Support HDMI/VGA video output
- Support mSATA/M.2 SSD, M.2 WiFi, Mini-PCIe
- Support Discrete TPM 2.0 module pre-installed



HDMI



Over-voltage Protection



USB 3.1



-20~60°C



Wide Voltage Range



Reversed Power Insertion Protection

System

CPU	Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
Memory	1 x SDRAM DDR4 3200 MHz SO-SIMM slot (max. 32G) 4GB DDR4 SO-DIMM pre-installed*(CTOS)
Graphics	Intel® UHD Graphics for 10 th Gen Intel® Processors
LAN chipset	2 x Intel I210AT GbE controllers 2 x Realtek RTL8111H GbE controllers
Watchdog Timer	Programmable 255 levels timer interval, from 1~255 sec/min

Storage

Device	1 x mSATA 1 x M.2 2242 (SATA3.0) 128GB M.2 SSD pre-installed*(CTOS)
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Audio

Type	1 x Audio(Line-out & Mic-in) Chip 888S/897
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Power System

Power Input	12-36V DC, 2-pin phoenix connector
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OS

Windows 10, Ubuntu 20.04	
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Qualification

Certification	CE, FCC
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External I/O

Serial Ports	2 x RS232/RS422/RS485 (default RS-232) with auto flow control 2 x RS485 2 x RS232 (optional by internal pin head)
USB Ports	2 x USB3.1 4 x USB2.0 1 x USB2.0 (for security dongle)

LAN	4 x RJ45
Video Ports	1 x HDMI up to 4096 x 2160 @ 24 Hz 1 x VGA (Side Located)
GPIO Remote	1 x 8bit programmable GPIO (default 3.3V, 5V optional) (optional by internal pin head)
Remote	1 x SW
Indicators	1 x Power LED(Green for Power-on, Blink for Sleep mode, Off for Power-off)

Internal I/O

Expansion Slot	1 x Mini-PCIe slot (PCIe/ USB2.0 signal supported) interconnected with SIM socket 1 x E-Key M.2 2230 slot (PCIe/USB2.0 signal supported) 1 x M.2 2242 SSD slot(SATA signal supported)
SPI	12-pins header w/ 5V for TPM 2.0 module
SIM Card	1 x SIM Card socket for 3G/4G module

Mechanical

Button	1 x Power button
Chassis	Aluminum Alloy
Dimension (W x H x D)	180 x 125 x 45 mm
Weight (Net)	1.5kg

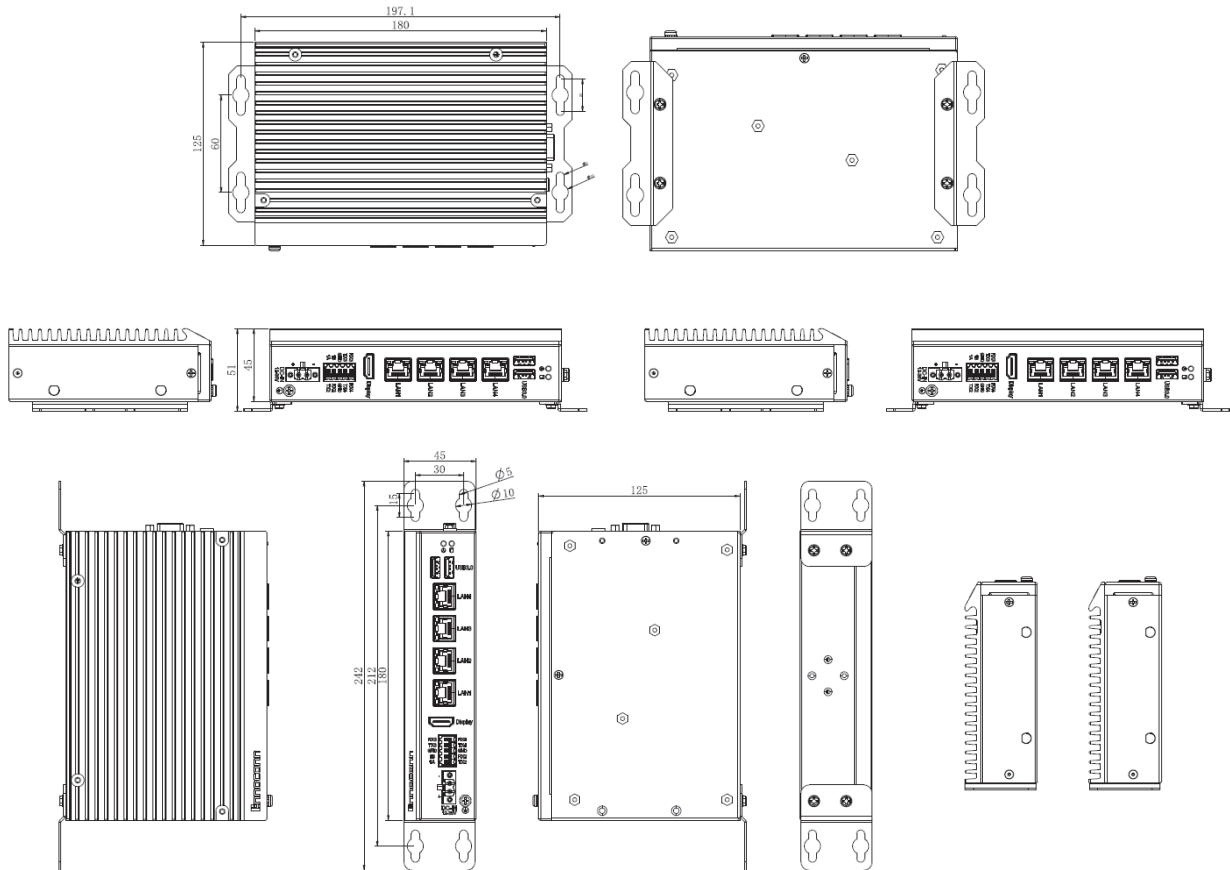
Environmental

Operating Temp.	-20 ~ 60°C
Storage Temp.	-40 ~ 85°C
Operating Humidity	5 ~ 95% (non-condensing)
Random Vibration	5~500Hz, 2Grms, operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms
ESD	Contact 6KV, Air 10KV

*CTOS means Configure-to-Order Service.

SB-244-2J64

Dimensions



Ordering Information

SB-244-2J64-R4S128	Fanless System with 4GB RAM & 128GB SSD, Intel Celeron Elkhart Lake J6412, DC 12-36V power input, Discrete TPM 2.0 module pre-installed	
SB-244-2J64	Barebone Fanless System, with Intel Celeron Elkhart Lake J6412, Discrete TPM 2.0 module pre-installed	
PAC-60W-FSP-SPA R1.0	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ USA POWER CORD	
PAC-60W-FSP-SPA R1.1	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ EU POWER CORD	
PAC-60W-FSP-SPA R1.2	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ UK POWER CORD	
PAC-60W-FSP-SPA R1.3	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ IN POWER CORD	