



- Intel® Elkhart Lake SoC Processor (**J6412**)
- 1x DDR4 3200 MHz **up to 16GB RAM**
- **12V**, DC-in w/ 220VAC Power Adapter
- 1x **HDMI (4K)**
- 6x **LAN Intel® 2.5 Gigabit Ethernet**
- **WIFI** and/or **4G/5G** connectivity (optional)
- 1x COM RS232/422/485 + 2x RS232

WAVE - J6412

FANLESS IPC

intel®

CE

FCC

RoHS COMPLIANT

MAINBOARD

CPU: Intel® Celeron® J6412
4 Core / 4 Thread
2.0 GHz (Base) / 2.6 GHz (Turbo) 10W

MEMORY

Capacity: up to 16GB
Frequency: 3200 MHz
Type: 1x SO-DIMM DDR4

STORAGE

SATA: 1x SATA3
M.2: 1x M.2 M-Key (2242) support NVMe
Storage Bay: 1x Internal 2.5" SSD Bay

I/O INTERFACE

Serial ports: 1x COM RS232/422/485
2x COM RS232
1x Console RS232 (RJ45 type)
USB ports: 1x USB 3.1,
1x USB 2.0,
M.2: 1x M2 E-Key (2230, WIFI)
1x M2 B-Key (3042, 4G/5G)
SIM Slot: 1x SIM Card slot

VIDEO

GPU: Intel® UHD 620 Graphics
Interface: 1x HDMI 1.4b (Up to 3840x2160 @30Hz)

ETHERNET

LAN: 6x Intel® i225-V 2.5 Gigabit Ethernet

POWER

Power in: 12V, DC-in
Max Power : 60W max
Adapter: AC_90~240V / DC_12V_3.3A/40W

MECHANICAL

Material: Lightweight aluminum alloy
with extruded aluminum IO panel
Dimensions: (W)200x(W)180x(H)59.5mm
Weight: 2.26Kg
Mounting: WallMount + DIN Rail kit (optional)

ENVIRONMENT

Operating temp.: -20°C to 60°C
Storage temp.: -20°C to 80°C
Humidity: 10% to 90% Humidity @40°C,
non-condensing
EMC: CE, FCC, RoHS, ErP Ready

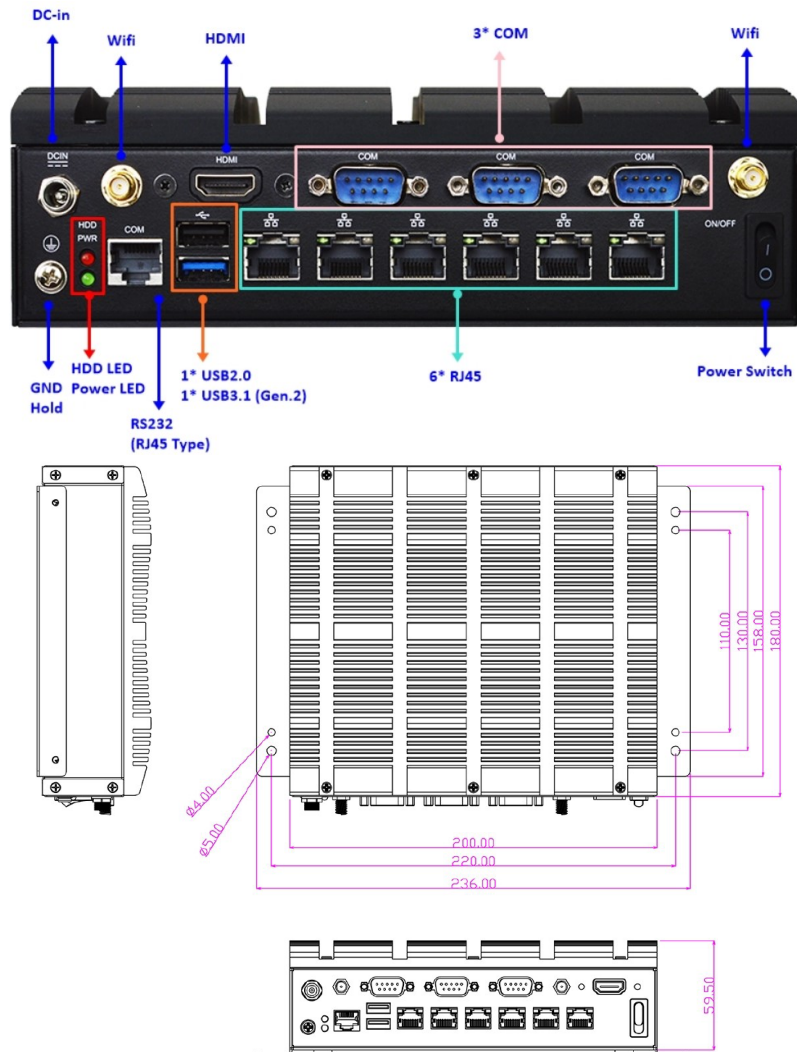
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Accessories Included:

- WALL + DIN Rail Mount Kit (optional)
- Power Adapter 12V @60W + Power Cable
- Screw pack

Compatible OS:

MS WINDOWS (64bit)

- Windows 10
- Windows 10 Enterprise LTSC (IoT)
- Windows 11
- Windows 11 Enterprise LTSC (IoT)



LINUX *

- CentOS 8
- Debian 10
- Fedora 34
- Ubuntu 20.04 LTS
- pfSense 2.6.0



* Linux distributions tested with the IPC.

Order Code:

B04 - **23C** - **WAVE** - **J6412** - **R08** - **M2D128**

RAM	R04 (4 GB)	STORAGE	SSD (2,5")	M2D/SSD128
	R08 (8 GB)		MSD (mSATA)	M2D/SSD256
	R16 (16 GB)		M2D (M.2)	Other on Request

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