



Features

- Intel Celeron J6412 (4 Cores) AES-NI
- 1 x DDR4 3200MHz SODIMM, Max. 32GB
- 4 x Rj45 2.5Gbps, 1 x COM Port
- 2 x mSATA, 1 x eMMC, 1 x Micro-HDMI
- 1 x Power button, 24-bit GPIOs
- 1 x M.2 for WiFi7, 1 x M.2 for 5G
- 1 x SIM Hole, 6 x SMA Cutouts
- 5 x USB2.0, 1 x USB3.0

Specifications

Processor System

CPU	Intel Celeron J6412
Frequency	2.6Ghz (Quad Core)
L2 Cache	1.5MB
BIOS	AMI 128Mb
AES	AES-NI
Fanless	Yes

Memory

Technology	DDR4 3200MHZ
Max. Capacity	32GB
Socket	1 x 260 pin SODIMM

Display

HDMI	1 x Micro-HDMI
Max. Resolution	4096 x 2160 @ 60Hz

Ethernet

Interface	4 x RJ45 Ethernet
Controller Speed	Intel i226-V
PoE	No (Optional)

Watchdog Timer

Output Internal Timer	System Reset Programmable 1 - 255 sec. 1 - 255 Mins, Disable
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Physical

Dimension	17 x 9 x 1.8 IN (LxWxH)
Weight	2.4 Lbs (Approx.)

Internal I/O

Serials	1 x RS-232, 2 x TTL
Reset Button	1
Power Button	1
USB	5 x USB2.0 (Internal) 1 x USB2.0, 1 x USB3.0
GPIO	24-bit
Serial Speed	Transfer to 1 Mbits/s
SIM Slot	2 (On Board)
SIM Cutout	1

Storage

mSATA	2 x full size mSATA
eMMC	1 x eMMC 4.5
SATA	1 x SATAIII (Optional) (Max. Transfer 6.0Gb/s)

Expansion

PCIe	PCIE x 4 Gen3
M.2 Slot	1 x WiFi7
M.2 Slot	1 x 5G

Power

Power input	12V +/- 10% only
Typical Power	1.6A@12V (18W)
Max. Power	60W

Environment

Operating	0°C ~ 60°C
Non-Operating	-40°C ~ 85°C
Opt. Humidity	40°C @ 95% RH
Non-Opt. Humid.	60°C @ 95% RH

Product I/O View



- A** Power LED
- B** HDD LED
- C** SIM Port
- D** Serial Port
- E** 4 x 2.5Gbps Ethernet
- F** USB3.0
- G** USB2.0
- H** Power Button
- I** Micro-HDMI Port



- J** Power Connector
- K** Power Button
- L** Optional Cooling fan

The BFX2RM model, built on the versatile BFX2 system board, offers unmatched flexibility and performance for diverse applications with rack mount brackets. Designed to support internal HDDs or PCI expansion cards, it is ideal for firewalls, VoIP systems, IoT gateways, or custom use cases. With four 2.5Gbps Ethernet ports, support for up to 32GB of DDR4 RAM, and optional TPM 2.0, the BFX2RM is tailored for demanding environments. Its modular design allows seamless integration into IT infrastructures, ensuring scalability and high performance.

Customization

- SMA Cutouts** Extra cutouts can add if required.
- Ports Labels** Custom Ports Labels can print based on requirements.
- Logo** Your company logo can print on system enclosure.
- BIOS** Custom BIOS configurations available on bulk deployment.
- OS** Custom OS pre-installed systems can ship worldwide.
- Configuration** Hardware customization is available.