

BFX2RM

Intel Powered PC
2.5 Gbps, 5G, WiFi 7 Ready

Compact edge appliance with multi-port networking and flexible RAM/storage , Wifi and Cellular backbone configurations for secure, reliable deployments.



Intel Celeron J6412

Powered by an Intel Celeron J6412 quad-core (2.6 GHz) with AES-NI acceleration for efficient, reliable performance. Ideal for any kind of Gateway.

Connectivity & I/O

Four Intel 2.5 Gigabit Ethernet ports plus serial, USB and 4G/5G capability for integration into network and industrial environments.

Deployment Flexibility

Multiple boot/storage, expansion slots, and GPIO/I2C headers enable tailored builds for edge gateways, security appliances, remote sites, and lab deployments.

Systems

Processor	Intel Celeron J6412
Processor Speed	2.6 GHz
Processor Cores	4 (Quad-Core)
Integrated Graphics	4096x2160 at 60Hz
Memory Capacity	DDR4 3200MHz SODIMM, 32GB (Max)
Memory Slot Count	1x SO-DIMM slot (DDR4)

Internal I/O

Serial Ports	2 x RS-232, 1 x TTL (1 Mbit/s)
TPM	Available (Optional)
GPIO	24-bit GPIOs
USB	2 x USB 2.0
SIM Slots	2 x Internal (Dual Push-Push)
Power Source	1 x Internal

Rear I/O

Ethernet	4 x Intel i226-V (2.5 Gbps)
USB	1 x USB 3.0, 1 x USB 2.0
Video	1 x Micro-HDMI
Power Jack	C13 (AC input to internal PSU)
Power Button	1
Reset Button	1
Serial Port	1 x RJ45
SMA Cutouts	10

Expansions

mPCIe (1,2,3)	1 x 4G, 2 x mSATA
M.2 (1,2)	1 x 5G, 1 x WiFi
PCIe, eMMC	1 x PCIe (For expansion), Internal eMMC

Dimensions & Environmental

Dimensions (LxWxD)	17 x 9 x 1.8 Inch
Weight	3 Lbs
Operational Temp:	0°C ~ 60°C (32°F ~ 140°F)
Certifications	RoHS, CE, FCC 47 CFR Part 15

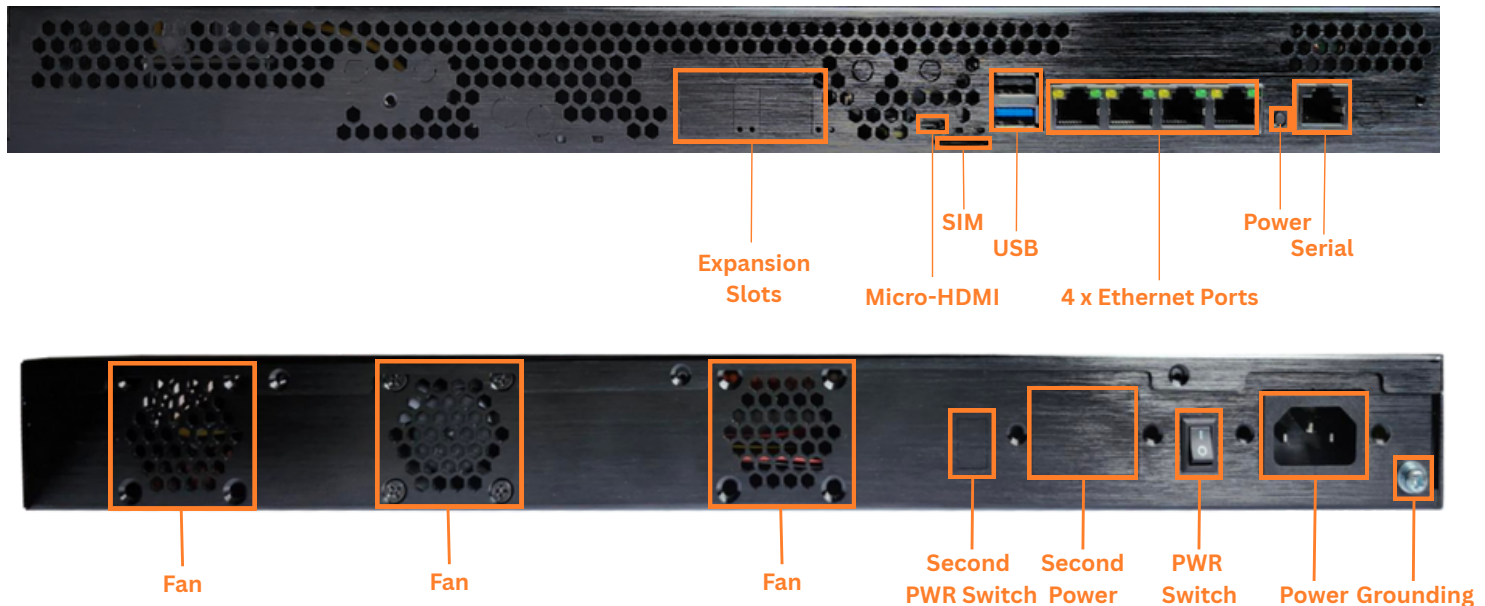
Other Features

Watchdog	1~255 Mins Programmable, Disable
Customization	Port labels, Branding, Internal HDD
Warranty	2 Years Standard + Extended Warranty

Humidity

Operational	10 ~ 90% RH
Storage	5 ~ 95% RH

Product I/O View



Future Expansion

Built on the BFX2 system board, the BFX2RM stands out for two practical advantages: internal UPS capability and PCIe expansion. The built-in UPS option helps ride through brief power events and supports safer shutdowns, reducing downtime risk at remote and branch sites. Its PCIe slot lets you expand the platform with add-on cards, such as extra Ethernet or SFP networking, so you can tailor the system to changing edge requirements without replacing the appliance.

Safety & Handling

- Use only the recommended Power supply
- Do not operate outside specified limits
- Proper Grounding is required
- Installation must be performed by qualified personnel

Contact Info

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Customization

- Enclosure & Appearance
- Memory & Storage
- Software & System Customization
- Branding & White Label Support
- Packaging & Accessories
- Custom BIOS Configuration
- SFP/Ethernet Expansion up to to two ports

Disclaimer

The information in this document is subject to change without notice. BFX2RM System specifications are provided for reference only and do not constitute a contractual obligation.