

# 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

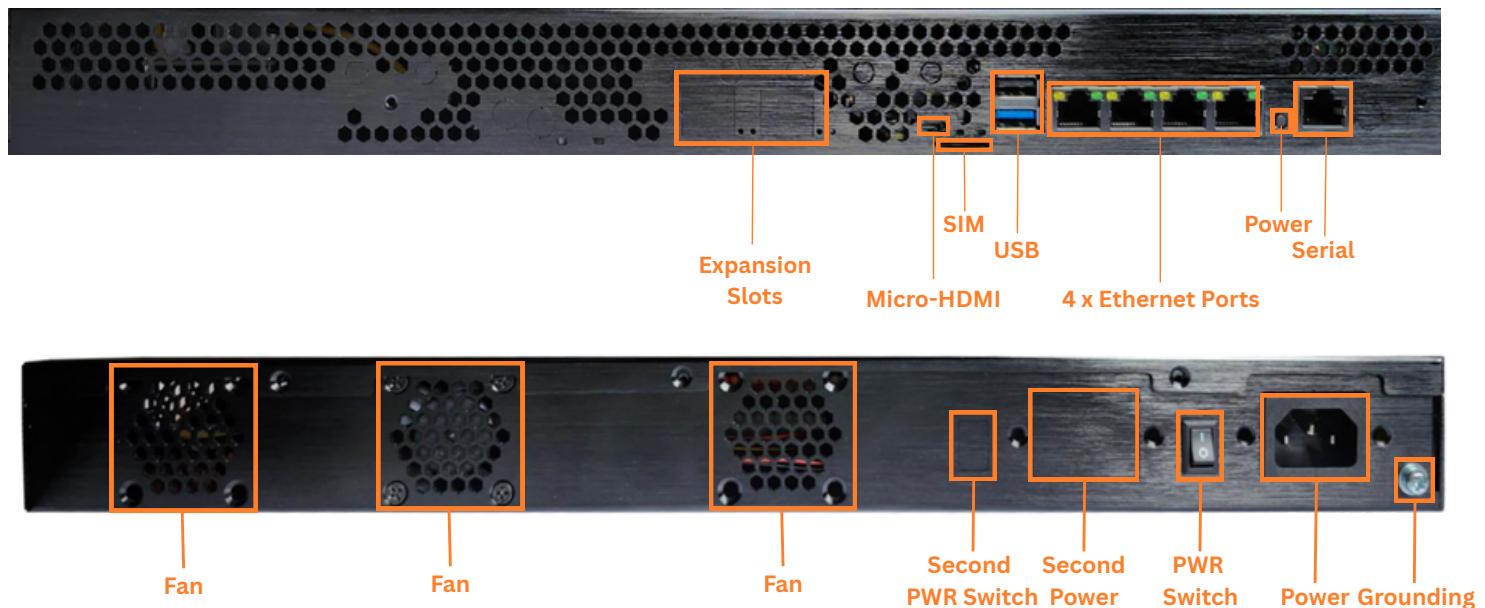
## Other Features

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 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.