

# BFN6KB

Intel Powered  
Fanless Mini PC

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



## Intel Atom E3845

Powered by an Intel Embedded Atom E3845 quad-core (1.91 GHz) with 64-bit processing and AES-NI acceleration for efficient, reliable performance.

## Connectivity & I/O

Four Intel Gigabit Ethernet ports plus one SFP port and USB for straightforward 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 Embedded Atom E3845 (AES-NI)
Processor Speed	1.91 GHz
Processor Cores	4 (Quad-Core)
Integrated Graphics	Intel HD (2560 x 1600 @ 60Hz)
Memory Capacity	DDR3L-1333 SO-DIMM (up to 8 GB)
Memory Slot Count	1x SO-DIMM slot (DDR3)

Internal I/O	
Serial Ports	Yes
TPM	TPM 2.0 (Optional)
GPIO	20-bit (Mode Switch)
USB	2 x USB 2.0
SIM Slots	2 x SIM Slots
Power Source	1 x Internal

Rear I/O	
Ethernet	3 x Intel WGI210AT (1 Gbps)
USB	2 x USB2.0
Video	1 x Micro-HDMI
Power Jack	5.5mm/2.5mm (12v/2amp)
Power Button	1
Reset Button	1
Serial Port	RJ45
SMA Cutouts	7

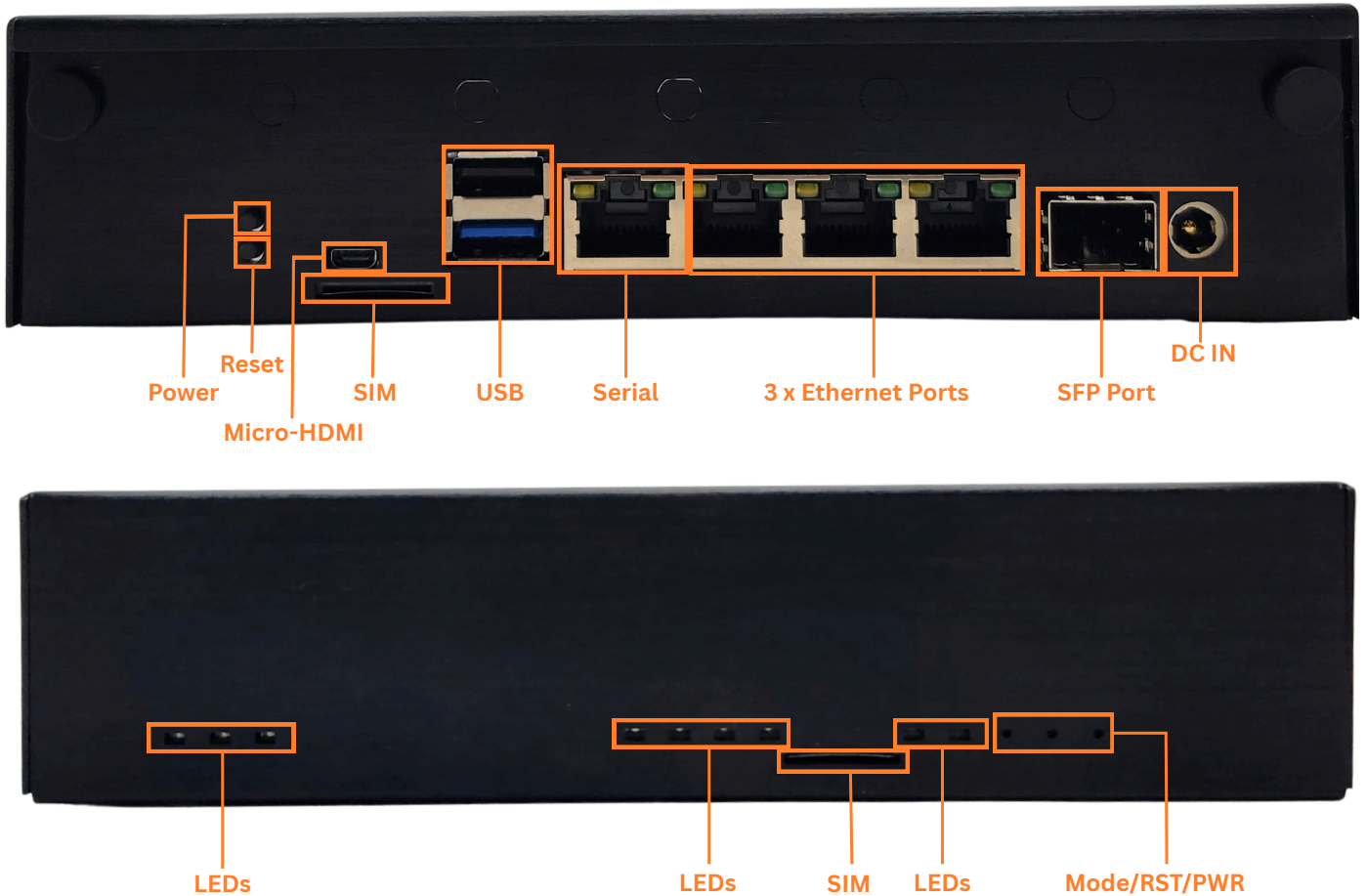
Expansions	
mPCIe1	mSATA
mPCIe2	mSATA or 4G/LTE
mPCIe3	WiFi or 4G/LTE

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

Dimensions & Environmental	
Dimensions (LxWxD)	6 x 7.5 x 1.5 Inch
Weight	2.4 Lbs
Operational Temp:	0°C ~ 60°C (32°F ~ 140°F)
Certifications	RoHS, CE, FCC 47 CFR Part 15

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

## Product I/O View



### 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

#### Boingfire Systems

7-871 Victoria Street N,  
Unit 173, Kitchener,  
ON, N2B 3S4,  
Canada

**Email:** sales@boingfire.com

**Website:** boingfire.com

### Customization

- Enclosure & Appearance
- Memory & Storage
- Software & System Customization
- Branding & White Label Support
- Packaging & Accessories
- Custom BIOS Configuration
- Rackmount Brackets

#### Disclaimer

The information in this document is subject to change without notice. BFN6KB System specifications are provided for reference only and do not constitute a contractual obligation.