

# BFN1KB

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

Two Intel Gigabit Ethernet ports plus serial 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 Atom E3845 2M Cache (AES-NI)
Processor Speed	1.91 GHz
Processor Cores	4 (Quad-Core)
Integrated Graphics	Intel HD (2560 x 1600 @ 60Hz)
Memory Capacity	DDR3-1333 SO-DIMM (up to 8 GB)
Memory Slot Count	1x SO-DIMM slot (DDR3)

## Internal I/O

Serial Ports	1 x RS-232, 2 x TTL (1 Mbit/s)
TPM	None
GPIO	8-bit GPIOs
USB	2 x USB 2.0
SIM Slots	1 x SIM Slots
Power Source	1 x Internal

## Rear I/O

Ethernet	2 x Intel WGI210AT (1 Gbps)
USB	2 x USB2.0
Video	1 x RS-232, 2 x TTL (1 Mbit/s)
Power Jack	5.5mm/2.5mm (12v/2amp)
Power Button	1
Reset Button	1
Serial Port	1 x RJ45
SMA Cutouts	2

## Expansions

mPCIe1	mSATA
mPCIe2	4G/LTE
mPCIe3	None

## 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

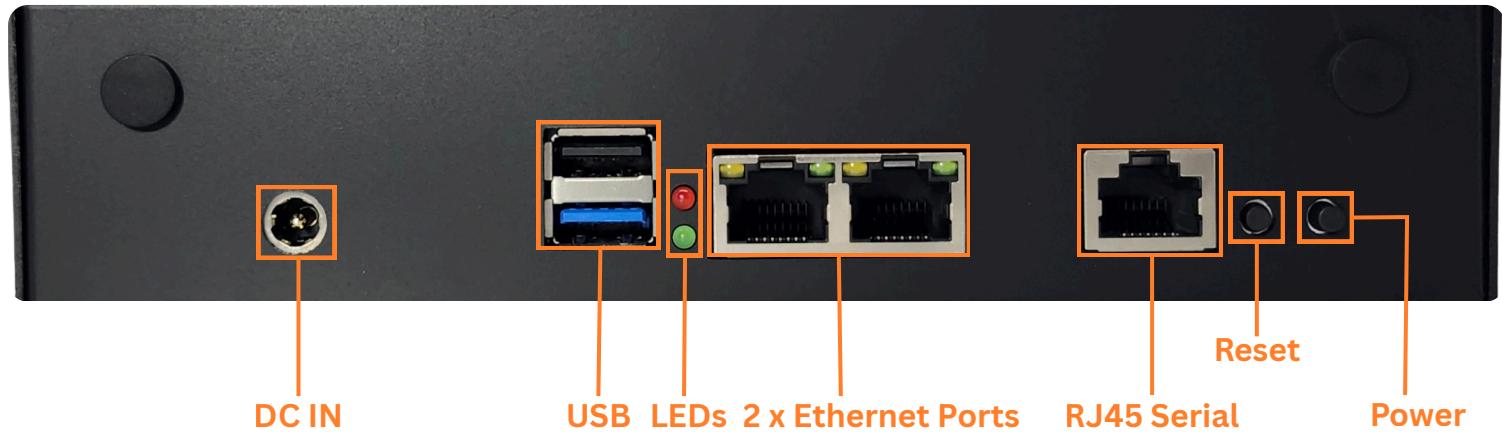
## Other Features

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

## Humidity

Operational	10 ~ 95% RH
Storage	5 ~ 95% 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

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### 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. BFN1KB System specifications are provided for reference only and do not constitute a contractual obligation.