BFN5KB

Boingfire

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

Three 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 Embedded Atom E3845 (AES-NI)
Processor Speed	1.91 GHz
Processor Cores	4 (Quad-Core)
Integrated Graphics	2560 x 1600 @ 60Hz
Memory Capacity	DDR3-1333 SO-DIMM (up to 8 GB)
Memory Slot Count	1× SO-DIMM slot (DDR3)

Internal I/O

Serial Ports	1 x RS-232, 2 x TTL (1 Mbit/s)
TPM	TPM 2.0
GPIO	24-bit (Mode Switch)
USB	2 x USB 2.0
SIM Slots	1 x SIM Slot
Power Source	1 x Internal

Rear I/O

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

Expansions

mPCIe1/2	2 x 4G/LTE/WiFi
mPCIe3	WiFI
mPCIe4	mSATA

Dimensions & Environmental

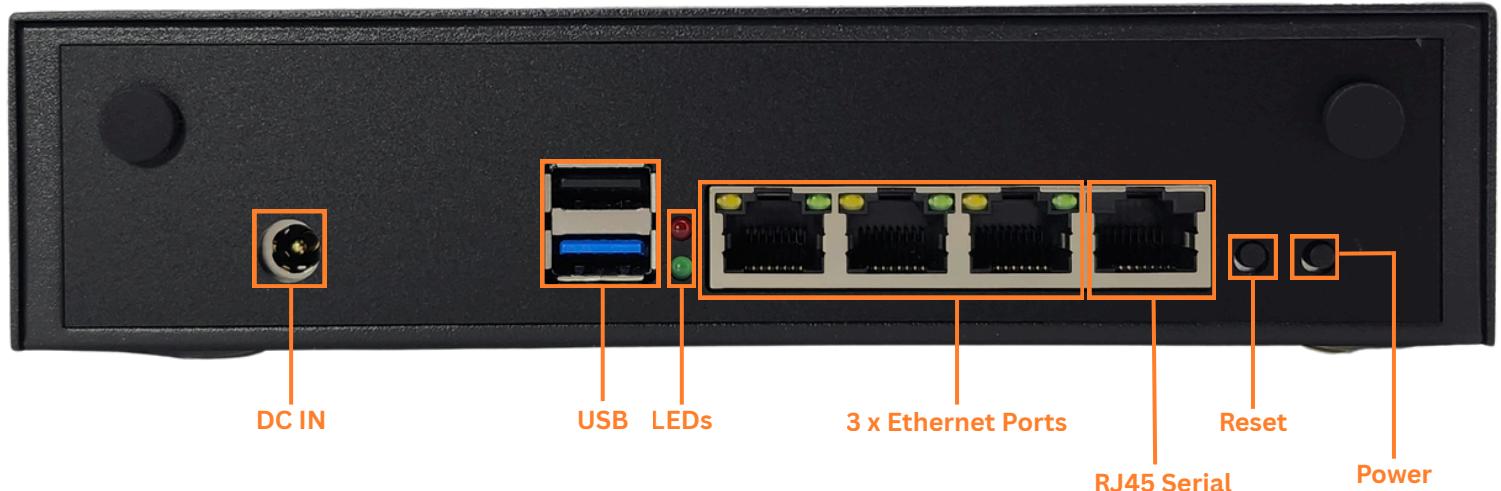|	
Dimensions (LxWxD)	6 x 7.5 x 1.5 Inch
Weight	2.4 Lbs
Operational Temp:	0°C ~ 60°C (32°F ~ 140°F)
Certifications	RoHS, CE, FCC 47 CFR Part 15

Other Features

Watchdog	1~255 Mins Programable, 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

DC IN   USB   LEDs   3 x Ethernet Ports   Reset

RJ45 Serial   Power

LEDs   LEDs   LEDs   Mode/RST/PWR

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. BFN5KB System specifications are provided for reference only and do not constitute a contractual obligation.