



Features

- Quad-Core Intel® Atom x5-E3940
- 4 GB DDR4 Onboard Memory
- 4 × Intel® I226-V 2.5GbE LAN Ports
- Flexible Storage Options
- Rich Expansion Capabilities
- Compact Fanless Industrial Design
- Full I/O & Embedded Features
- Supporting Multiple 4G/5G, Wi-Fi, LTE

Specifications

Processor System

CPU	Intel® Atom x5-E3940
Frequency	1.6/1.8 Ghz (Base/Burst)
L2 Cache	2.0 MB
BIOS	AMI 64 Mbit
AES	AES-NI
Cooling	Fanless thermal design

Memory

Technology	Onboard DDR4
Max. Capacity	4 GB (non-removable)
Form Factor	Soldered

Display

Interface	1 × Micro-HDMI
Max. Resolution	4096×2160 @ 60Hz (4K)

Ethernet

LAN Interface	4 × RJ45
Connector	RJ45
Controller	Intel® I226-V
Speed	2.5 Gigabit Ethernet
PoE	No

Watchdog Timer

Output	System Reset
Internal Timer	Programmable 1 - 255 sec. 1 - 255 Mins, Disable

Physical

Dimension	189 × 157 × 29 mm
Weight	1.71 Lbs (Approx.)

Internal I/O

Serials	1 × RJ45, 1 × TTL
Power Button	1
USB	2 × USB2 (Internal), 1 × USB 2.0, 1 × USB3.0
GPIO	24 × GPIO (digital I/O)
SIM Slot	4 × SIM slots total Supports M.2 4G/5G

Storage

mSATA	2 × Full-size mSATA slots
RAID	Software RAID (OS-dependent)
SATA Speed	SATA 3.0 (6 Gb/s)

Expansion

Power Out	For External Module
TPM 2.0	Optional Security
Serial	TTL Serial Header
Watchdog	Trigger Header
mPCIe/M.2	4 × Mini PCIe*, 1 × M.2 B-key slot (4G/5G)

Power

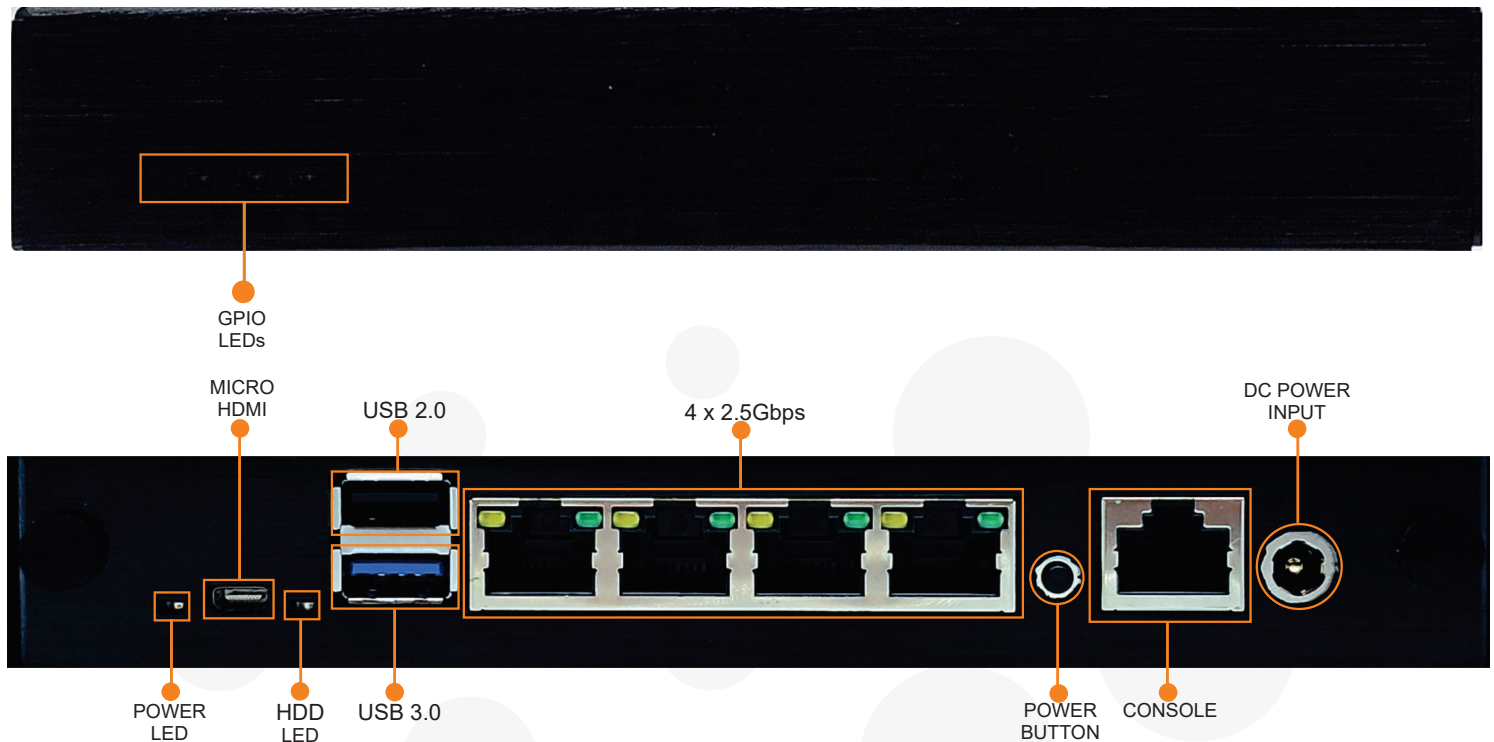
Power input	12V ±10% only
Typical Power	0.6A @ 12V (7.2W)
Max. Power	5A @ 12V (60W)

Environment

Operating	0°C ~ 60°C
Non-Operating	-40°C ~ 85°C
Opt. Humidity	Up to 95% RH @ 40°C**
Non-Opt. Humid.	Up to 95% RH @ 60°C**

* 1 x mSATA/4G LTE, 2 x Wi-Fi/4G LTE, 1 x mSATA | ** Non-condensing

Product I/O View



Package Overview

The BFT4KB is a fully assembled, fanless network appliance kit built around the Boingfire BFT4 system board with an Intel Atom™ x5-E3940 quad-core processor and 4 GB onboard DDR4 memory. Housed in a compact black anodized aluminum BFCASET4S enclosure, the system includes four Intel I226-V 2.5 GbE LAN ports, four mini PCIe slots, and one M.2 B-key slot, giving you ample flexibility for Wi-Fi, LTE/5G, and additional storage or expansion cards. A pre-installed mSATA SSD (capacity configurable at order time) provides reliable solid-state storage, while the integrated SIM slots support multi-carrier cellular deployments. The kit is delivered ready to deploy with a 12 V DC power adapter (2 A) and region-appropriate AC plug, making it ideal as a turnkey platform for firewalls, routers, SD-WAN CPE, VPN gateways, or IoT/edge networking solutions.

Customization

SMA Cutouts	Extra cutouts can be added if required.
Ports Labels	Custom Ports Labels can print based on requirements.
Logo	Your company logo can be printed on the system enclosure.
BIOS	Custom BIOS configurations available on bulk deployment.
OS	Custom OS pre-installed systems can ship worldwide.
Configuration	Hardware customization is available.