



### **Features**

- **Quad-Core Intel®Atom x5-E3940**
- **8 GB DDR4 Onboard Memory**
- 4 × Intel<sup>®</sup>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	I	ntel®At	om x5-E	3940
Frequency	1	.6/1.8	Ghz (Bas	se/Burst)
L2 Cache	2	2.0 MB		
BIOS	Δ	MI 64	Mbit	
AES	A	AES-NI		
Cooling	F	anless	thermal	design

#### Memory

Technology	Onboard DDR4
Max. Capacity	8 GB (non-removable)
Form Factor	Soldered
Dicalay	

#### Display

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

#### **Ethernet**

Weight

LAN Interface	4 x RJ45
Connector	RJ45
Controller	Intel <sup>®</sup> I226-V
Speed	2.5 Gigabit Ethernet
PoE	No

#### Watchdog Timer

Output Internal Timer	System Reset Programmable 1 - 255 sec. 1 - 255 Mins, Disable
Physical	
Dimension	189 × 157 × 29 mm

#### Internal I/O

Serials	1 x RJ45, 1 x TTL
Power Button	1
USB	2 x USB2 (Internal), 1 x
	USB 2.0, 1 x USB3.0
GPIO	$24 \times GPIO$ (digital I/O)
Audio	1 x MIC, 1 x Audio Out
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 x Mini PCIe*, 1 x M.2
Power	B-key slot (4G/5G)

# Power input 12V ±10% only

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Typical Power	0.6A @ 12V (7.2W)
Max. Power	5A @ 12V (60W)

#### Environment

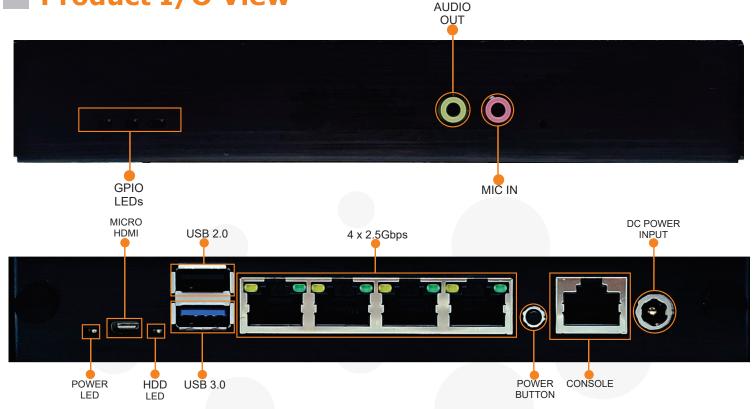
Operating	0°C ~ 60°C
Non-Operating	-40°C ~ 85°C
Ont Humidity	Up to 95% RH @ 40°C

Non-Opt. Humid. Up to 95% RH @ 60°C\*\*

1.71 Lbs (Approx.)

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

## **Product I/O View**



# **Package Overview**

The BFT8KB is delivered as a fully assembled, ready-to-deploy network appliance built around the BFT8 industrial system board and enclosed within the BFCASET4S aluminum chassis. The system includes your selected mSATA storage option and a 12V DC power adapter (available in 2A or 5A variants depending on configuration). Designed for professional and commercial environments, the BFT8KB supports a wide range of optional integrations such as 4G/LTE and 5G modules (Mini-PCIe or M.2 B-Key), external SMA antennas, additional mSATA SSDs for redundancy or RAID, GPIO expansion modules, TPM 2.0, and custom OS or BIOS configurations. Offering robust performance, multi-WAN flexibility, and enterprise-grade reliability, the BFT8KB serves as a complete platform for firewalls, routers, VPN servers, SD-WAN nodes, IoT gateways, VoIP systems, and various edge-computing applications.

## **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.

