



# Fitlet2 IOT Device specifications

## Fitlet2 Internet of Things Device

The fitlet2 has been designed with industrial IoT in mind. This cutting-edge, miniature, fan-less PC offers endless applications thanks to extension models.

### Fitlet 2 IoT Specifications

CPU Options	
Intel Atom x7-E3950   Intel Atom x5-E3930   Intel Celeron J3455	Other pin-compatible CPUs are available for large volume orders.
RAM	
Up to 16GB	1x SO-DIMM 204-pin DDR3L Non-ECC DDR3L-1866 (1.35V)
Storage	
M.2 M-key 2260*   2242 (SATA 3 6 Gbps) or eMMC	micro SD socket is also available. External USB storage is supported. Both are bootable.  <i>* M.2 2280 optional on some FACET cards</i>
Display	
Dual head mini DP 1.2 4K @ 60 Hz HDMI 1.4 4K @ 30 Hz	
Networking	
LAN Up to 4x Gbit Ethernet Intel i211	2 GbE ports on-board + 2 additional ports on optional FC-LAN FACET card.
Wireless LAN* 802.11ac dual antenna + BT 4.2	Add-on M.2 E-key 2230 + 2x RP-SMA antennas. User can install another Wireless LAN adapter.  <i>* Optional</i>
Cellular communication* LTE/WCDMA/GSM/GNSS	Cellular communication Available using optional FACET card with either M.2 B-key or miniPCIe socket. FACET has micro-SIM socket.  <i>* Optional</i>

Input / Output	
<b>USB</b> Up to 8 ports 2x USB 3.0 Up to 6x USB 2.0	4 USB ports on-board + 4 additional ports on optional FC-4USB FACET card.
<b>Audio</b> Stereo line-out Stereo line-in / mic 7.1 S/PDIF out* HDMI & DP audio	Realtek ALC1150 audio codec  * requires a 3.5mm to SMA cable (sold separately).
<b>RS232 serial port*</b>	* Requires mini-serial to DB-9 adapter cable (sold separately).

Extensions	
<b>Function and Connectivity Extension T-Card (FACET Card) interface</b>  <b>Available FACET-Cards</b> <ul style="list-style-type: none"> <li>dual Gbit Ethernet</li> <li>4x USB 2.0</li> <li>miniPCIe + micro SIM + M.2 E-key + M.2 M-key 2280</li> <li>M.2 B-key + micro SIM + M.2 E-key + M.2 M-key 2280</li> </ul>	FACET Card interface includes 2x PCIe, USB, eDP 1.3 and I2C.  Additional FACET cards are under development.  FACET Card interface is public with reference designs.
<b>M.2 E-key socket*</b>	* Shared with FACET Card socket

BIOS / OS	
<b>BIOS</b> AMI Aptio V  <b>Operating systems</b> Windows 10 IoT Enterprise LTSC Linux Mint	Compatible with other Windows 10 variants.  Compatible with other Linux variants.  Compatible with other hypervisors and operating systems (e.g. ESXi, FreeBSD)

Power	
<b>Input voltage range</b> Up to DC 9V – 36V*  <b>Power consumption</b> 5W – 15W	Power consumption depends on <ul style="list-style-type: none"> <li>– CPU type</li> <li>– System load</li> <li>– Installed devices</li> <li>– Connected peripherals</li> </ul> * When ordered with extended input voltage range. Normal input voltage range DC 7V – 20V.

### Temperature & Humidity

**Operating temperature range**  
Up to -40°C to 85°C\*

**Relative humidity**  
5% – 95% non-condensing

*\* When ordered in industrial temperature range. Commercial and extended temperature range are also available.*

### Dimensions & Weight

**Low power housing**  
112 mm X 84 mm X 25 mm

**Performance housing**  
112 mm X 84 mm X 34 mm

**Industrial housing**  
112 mm X 112 mm X 25 mm

**Weight**  
350 gram

The user can easily change the housing type in the field.

### Housing & Cooling

**All metal housing**  
Aluminium | zinc die cast parts

**Fanless convection cooling through the housing**  
No vents

### Mounting

**VESA / wall mounting bracket\***

**DIN-rail mounting bracket\***

*\* Sold separately*

### Functional Features

- **Auto-on**
- **Programmable indicator LEDs**
- **Removable RTC battery**
- **Auxiliary power header**
- **RTC reset tactile switch**
- **TPM**
- **Remote power button**

### Firmware & BIOS features

- **PXE boot**
- **Wake-on-LAN**
- **Wake-on-timer**

### Mechanical features

- **Kensington lock**
- **Power plug twist lock**
- **Mechanical disabling of power button**