

fitlet2



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Specifications

Model	NAME	fitlet2 Barebones
	PART NUMBER	FITLET2-CE3930 FITLET2-CE3950 FITLET2-CJ3455
	BLOCK DIAGRAM	fitlet2 Block Diagram
	CURRENT HW REVISION	N/A
	LONG TERM AVAILABILTY	Yes – 15 years availability (specifications may be upgraded or changed)
Processor	TYPE	Intel Atom x5-E3930 Intel Atomx 7-E3950 Intel Celeron J3455
	CORES	64-bit Dual Core 64-bit Quad Core 64-bit Quad Core
	CLOCK SPEED	1.3Ghz (boost up to 1.8GHz) 1.5GHz (boost up To 2.3GHz) 1.5GHz (boost up to 2.3GHz)
	TDP	6.5W 10W 10W
	CHIPSET	SoC (CPU and Chipset on the same die)
Memory	SUPPORTED	Up to 16GB. 1X SO-DIMM 204-pin DDR3L Non-ECC DDR3L-1866 (1.35V)
	INSTALLED	Not installed
Storage	SUPPORTED	M.2 M-key 2260 (M.2 2280 optional on some FACET cards) 2242 (SATA 3 6 Gbps) or EMMC. Micro SD socket is also available. External USB Storage is supported. Both are bootable
	INSTALLED	Not installed
Audio	CODEC	Realtek ALC1150 audio codec
	AUDIO OUTPUT	Stereo line-out
	AUDIO INPUT	Stereo line-in / mic 7.1 S/PDIF out (requires a 3.5mm to SMA cable – sold separately) HDMI & DP audio

Networking

LAN	2 GbE ports on-board
WIRELESS	802.11ac dual antenna + BT 4.2. Intel AC860 M.2 WiFi + 2x RP-SMA antennas. User can install another Wireless Lan adapter.
CELLULAR COMMUNICATION (OPTIONAL)	LTE/WCDMA/GSM/GNSS module can be built into fitlet2, but will replace the internal WiFi module.

Connectivity

USB	2x USB 3.0 2x USB 2.0 Can be extended to a total of 8 USB ports. 4 USB ports on-board + 4 additional ports on Optional FC-4USB FACET card. USB FACET Card will replace WiFi / Cellular module.
SERIAL	RS232 serial port (requires mini-serial to DB-9 Adapter cable – sold separately)
SD	Micro-SD slot support SD/SDHC cards. Transfer rates up to 25 MB/s
SPECIAL I/O EXPANSION	N/A Function and Connectivity Extension T-Card (FACET Card) interface. Available FACET-Cards: - dual Gbit Ethernet - 4x USB 2.0 - miniPCIe + micro SIM + M.2 E-key + M.2 M-key 2280 - CANbus + RS232/RS485 + GPIOs - PoE + M.2 M-key 2280 + M.2 E-key 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. M.2 E-key socket – shared with FACET Card socket.

Advanced Technologies	<p>VPRO</p> <p>AMT</p> <p>CPU VIRTUALIZATION</p> <p>AES</p> <p>SPECIAL FUNCTIONALITY</p>	<p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Auto-on Programmable indicator LEDs Removable RTC battery Auxiliary power header RTC reset tactile switch TPM Remote power button</p>
Bootloader	<p>VENDOR</p> <p>FEATURES</p>	<p>AMI Aptio V</p> <p>TBA</p>
Operating System	<p>SUPPORTED</p> <p>OFFICIAL LINUX INSTALLED</p>	<p>Windows 10 IoT Enterprise LTSC and other Windows 10 variants, Linux and other hypervisors and operating systems (e.g. ESXi, FreeBSD).</p> <p>Linux Mint</p> <p>Not installed</p>
Operating Conditions	<p>INPUT VOLTAGE</p> <p>POWER CONSUMPTION</p> <p>OPERATING TEMPERATURE</p> <p>RELATIVE HUMIDITY</p> <p>MTTF</p>	<p>Up to DC 9V – 36V (when ordered with extended input voltage range. Normal input voltage range DC 7V – 20V)</p> <p>5W – 15W. Power consumption depends on</p> <ul style="list-style-type: none"> - CPU type - System load - Installed devices - Connected peripherals <p>Commercial Temperature Range: 0°C to 70°C.</p> <p>Can be ordered with Extended or Industrial Temperature range: Up to -20°C to 70°C (Extended TE) Up to -40°C to 70°C (Industrial TI)</p> <p>5% - 95% non-condensing</p> <p>N/A</p>

Enclosure

MATERIAL	All metal housing. Aluminium zinc die cast parts.
COOLING	Fanless convection cooling through the housing. No vents.
DIMENSIONS	Low-power housing 112mm X 84mm X 25mm Performance housing 112mm X 84mm X 34mm
WEIGHT	350 gram
MOUNTING	VESA / wall mounting bracket. DIN-rail mounting bracket. Both sold separately.

Package

IN THE BOX	<ol style="list-style-type: none"> 1. fitlet2 computer 2. Power supply: input 100-240V AC 50/60Hz, 36W output 12V DC 3A, DC plug lock, attachable NA and EU plugs 3. WiFi 2.4GHz/5GHz band 2 antennas (in some models)
WARRANTY	5 years
MECHANICAL FEATURES	<ul style="list-style-type: none"> Kensington lock Power plug twist lock Mechanical disabling of power button