

Fitlet2

Compact, Capable, Flexible Micro IoT PC

Product Specification v.1.0



Fully Customisable

Fitlet2 is a unique passively cooled micro PC powered by dual and quad core Intel Apollo Lake processors. Fully customisable, Fitlet2 is the best engineered micro IoT PC in the market and has been designed to answer your needs of flexibility (CPU performance, size, connectivity and mountings).

24/7 Reliability, Low Power Consumption

With latest technology, extreme reliability, enhanced flexibility and low power consumption, Fitlet2 is made for 24/7 data collection, monitoring and processing applications under challenging operating temperatures (up to -40/+85C).

Control Unit & IoT Gateway

We recommended Fitlet2 as process control unit for embedded CCTV systems and industrial supervision. Thanks to Atom Apollo Lake processors, developed especially for IoT, it is also the optimal gateway for smart building, transportation and real-time data management.





Flexibility in CPUs

Fitlet2 offers flexibility of processing performance with a variation of 3 CPUs. Thanks to these multiple options, get the right CPU for your application.

	E3950	E3930	J3455
Segment	Embedded	Embedded	Desktop
Micro Architecture	Goldmont	Goldmont	Goldmont
Code Name	Apollo Lake	Apollo Lake	Apollo Lake
Type	<u>Atom™ Processor x7 Series</u>	<u>Atom™ Processor x5 Series</u>	<u>Intel® Celeron® Processor J Series</u>
Processing performance	High Performance	Low Performance Low Power Consumption	High Performance
Cores/ Threads	4C/4T	2C/2T	4C/4T
Speed	1.6GHz to 2GHz	1.3GHz to 1.8GHz	1.5GHz to 2.3GHz
TDP	12W	6.5W	10W
Graphics	Intel HD Graphics 505	Intel HD Graphics 500	Intel HD Graphics 500
Project Longevity	Long Term	Long Term	Short Term
Usage	Data/Video Processing. Data Transmission (Gateway).	Data Monitoring. Low volume data processing or transmission.	Video Processing. Data transmission (Gateway).

Flexibility in Sizes

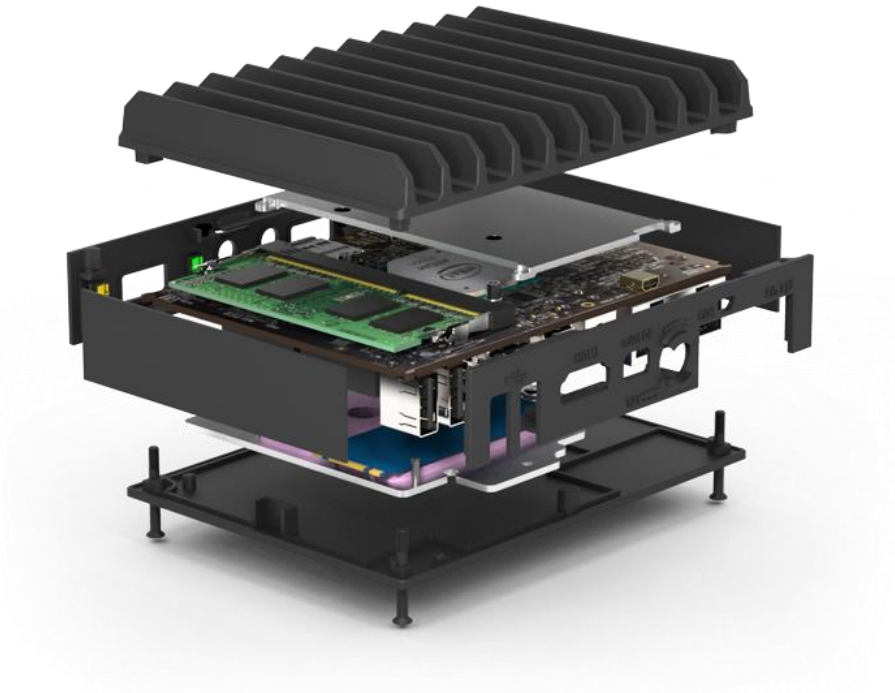
With a maximum size of 112 mm x 84 mm x 34 mm (heatsink integrated), Fitlet2 is one of the smallest fully-featured Fanless PCs on the market. All enclosures are full metal housing and ensure a passively cooled system.

Performance Housing	Low Power Housing	Industrial Housing	SBC Model
			
112 x 84 x 34 mm	112 x 84 x 25 mm	112 x 112 x 25 mm	105 x 84 x 23 mm
Optimal passive cooling for high processing applications thanks to built-in heatsink.	Design for low processing applications.	Optimal design for enclosed applications (CPU heat dissipation through VESA mounting)	Recommended design for embedded integration.

Seamless Customisation

Fitlet2 comes with a complex yet easily customisable metal 3D design with interlocking parts. Standard model already packs a lot of connectivity.




On top of it, the Function And Connectivity T-card (or FACET card) provides further customisation and seamlessly integration into the housing.



Standard Features

Version	Interfaces	Appearance
Barebone	2x I211 Gbe ports; 2x 4K video outputs (HDMI + mini DP); 1x microSD card slot; 1x RS232 serial port; 2x GPIO LED; 2x USB 3.0 ports; 2x USB 2.0 ports; 1x Audio Input 3.5 Jack; 1x Audio Output 3.5 Jack. Internal: 1x M.2 M-Key – For Storage; 1x M.2 E-Key – For Options; 1x Connector for Remote Button	

Customisation via FACET

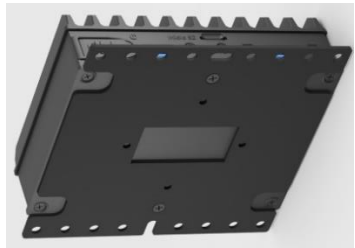


FACET	Description	Interfaces	Appearance
Dual Ethernet	Adds 2 Ethernet Ports for a total of 4x I211. For extended networks.	Using M.2 E-Key on SBC.	
mini PCIe Cellular + WIFI/BT	Adds mini PCIe Cellular Modem possibility (micro SIM Card on FACET) + WIFI/BT possibility + M.2 SATA 2260/2280 possibility.	Using M.2 E-Key and M.2 M-Key from SBC.	Photo NOT Available.
M.2 Cellular + WIFI/BT	Adds M.2 Cellular Modem possibility (micro SIM Card on FACET) + WIFI/BT possibility + M.2 SATA 2260/2280 possibility.	Using M.2 E-Key and M.2 M-Key from SBC.	
4x USB 2.0 Ports	Adds 4x USB 2.0 Ports for a total of 6x USB 2.0 + 2x 3.0 for intensive USB devices connection	Using M.2 E-Key from SBC.	

Connectivity Options

OPTIONS	Description	Compatibility
M.2 Intel WIFI/BT	Intel Dual Band Wireless AC-8260 M.2 E-Key: - WIFI 801.11ac, Dual Band, 80MHz. - Bluetooth 4.2	- Barebone (Fitted on SBC) - FACET mini PCIe + Cellular + WIFI/BT. - FACET M.2 Cellular + WIFI/BT.
Mini PCIe 4G LTE Modem	Sierra Wireless MC4755 mini PCIe: - LTE-FDD, LTE-TDD HSPA+ - GPS, Glonass, Beidou, Galileo	- FACET mini PCIe + Cellular + WIFI/BT.

Mounting Options

Easily and securely mounted in nearly any IoT scenario – in a cabinet, in a vehicle, inside a vending machine or just mounted behind a display, on the wall or on a furniture:

	VESA Mounting Bracket	Industrial Top Cover	Din Rail
			
Product Info	Bracket with large number of mounting holes for extra installation flexibility.	For CPU Heat dissipation through metal body when coupled.	For Industrial Application with DIN RAILS. Vertical and Horizontal positions possible.
Fitting on Fitlet2	Screw on Bottom	Mounted on Top (CPU Side)	Screwed on VESA bracket
Can be added with Housing	<ul style="list-style-type: none"> - Performance on Top; - Power on Top; - Industrial on Top. 		<ul style="list-style-type: none"> - Performance on Top - Low Power on Top

Contact and Support

For further information and quotations, please contact info@tinygreenpc.com

For support and technical questions, send your email to technical@tinygreenpc.com or raise a ticket via our website <http://www.tinygreenpc.com/support>