

Fitlet RM xA10

Ultimate Mini Rugged PC (LAN Version)

Product Specification v.1.5



With an all-metal (aluminium & zinc) housing designed to maximise heat-dissipation in the smallest possible footprint, fitlet-RM is the ultimate rugged industrial PC, built for extreme environments:

Shock & vibration: Fitlet-RM has been thoroughly and successfully tested for vibration, stress and shocks: it has been driven over by a car and still booted up just fine.

Temperature: With no moving parts, passive cooling and SSD storage, Fitlet's reliability and thermal performance are not reduced over time and can operate continually at a wide temperature range of between -40°C to +70°C.

Dusty, humid or polluted air: Heat dissipation is by conduction to the housing so there is no air circulation on internal components – making it easy to integrate Fitlet RM in clean-rooms and sterilised environments but also removing the threat of failure due to fan malfunction or dust accumulation.

For Advanced Routing, Networking and Security

With a Fitlet Card offering 4 GbE LAN ports (RJ-45), Fitlet RM xA10 is recommended for applications such as advanced routing and network security.

A second model is available for wireless communications (Fitlet RM iA10).

Key Features

- Quad Core AMD A10 Micro-6700T 64-bit up to 2.2Ghz
- AMD Radeon R6 Graphics
- Up to 16 GB DDR3L-1333
- 1x FACET card interface
- 4 GbE LAN ports (RJ-450)
- 1x Half/Full-size mini-PCIe socket
- Low Power Consumption
- 0.22 litre all aluminium housing

Product Specifications

Model	fitlet-RM-XA10-LAN Barebone
Name	FITLRM-XA10-LAN BB
Current HW Revision	1.3
Long Term Availability	2024
Processor	
Type	AMD A10 Micro-6700T SoC
Cores	64-bit quad core
Clock speed	1.2GHz (boost up to 2.2GHz)
TDP	4.5W
Chipset	SoC (CPU and Chipset on the same die)
Memory	
Supported	1x SO-DIMM 204-pin DDR3L SDRAM memory slot Up to 2x8GB Non-ECC DDR3L-1333 (1.35V)
Installed	Barebone as default. Options are: 2GB / 4GB / 8GB / 16GB – DDR3L 1600MT/s Non-ECC
Storage	
Supported	1x mSATA slot up to 6 Gbps (SATA 3.0)
Installed	Barebone as default. Options are: M SATA 3.0: 120GB / 256GB
Graphics	
GPU	AMD Radeon R6 Graphics Dual display mode supported
Display Interface 1	HDMI 1.4a up to 1920 x 1200 @ 60Hz
Display Interface 2	HDMI 1.4a up to 1920 x 1200 @ 60Hz
Audio	
Codec	Realtek ALC886 HD audio codec
Audio Output	Analog stereo output Digital 7.1+2 channels S/PDIF output 3.5mm jack

Audio Input	Analog stereo Microphone input Digital S/PDIF input 3.5mm jack
Networking	
LAN	4x GbE LAN ports (RJ-45) LAN1-4: Intel I211 GbE controller
Wireless	WLAN 802.11b/g/n WIFI USB Dongle
Connectivity	
USB	2x USB 3.0 3x USB 2.0
Serial	1x Serial communication port COM1: RS232 via mini serial connector
SD	Micro-SD slot support SD/SDHC cards Transfer rates up to 25 MB/s
Special I/O	1x micro SIM slot – not available as mini-PCIE socket used by the FACET Card. (if micro SIM Slot required, check Filtet RM iA10 model)
Expansion	1x Full-size mSATA socket (low profile) – used for storage 1x Half/Full-size mini-PCle socket (high profile) – used by the FACET Card using
Advanced Technologies	
vPRO	No
AMT	No
CPU Virtualization	Yes
AES	Yes
Special Functionality	Auto-On, Wake-on-LAN, Wake-on-Timer, PXE Boot Watchdog, Remote power button
Bootloader	
Vendor	American Megatrends Inc.
Features	TBA
Operating System	
Supported	Windows 7/8/10, 32-bit and 64-bit Linux Mint/Ubuntu 32-bit and 64-bit Embedded OS
Official Linux	Linux Mint 18 Cinnamon (64-bit)

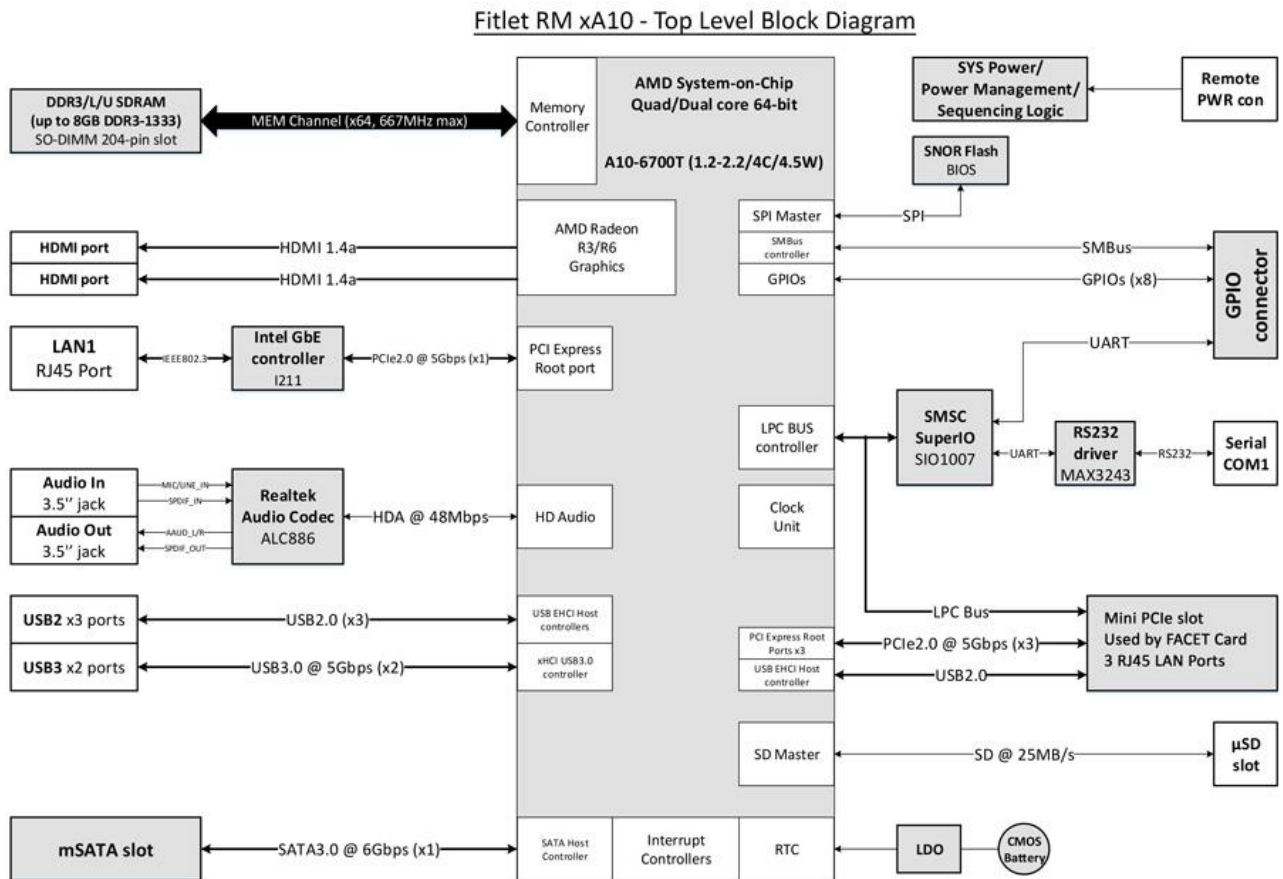
Installed	No OS installed as default. Options are: Windows 10 Pro 64 bit Win 10 IoT Enterprise LTSB Value Linux (Mint / Ubuntu) 64-bit
Operating Conditions	
Input Voltage	Unregulated 10 – 15VDC input Nominal input voltage: 12V
Power Consumption	4.5W-10.5W
Operating Temperature	Commercial: 0°C to +40°C Following options available: Optional - Extended (TE): -20°C to +70°C Optional - Industrial (TI): -40°C to +70°C
Relative Humidity	10% to 90% (operation) 5% to 95% (storage)
MTTF	> 100,000 hours*
Certifications	CE, FCC, EMC and Safety
Enclosure	
Material	Aluminium & zinc (all-metal housing)
Cooling	Passive Cooling Fanless Design
Dimensions	10.8cm x 8.3cm x 2.4cm
Weight	450gr
Warranty	
PC	5 years*
Consumable	1 year

*Supplied by Tiny Green PC, trading division of Anders Electronics plc. Manufactured by CompuLab.

Package Content

Item	Specifications
1	Fitlet-RM xA10 Computer
2	Power Supply: input 100-240VAC 50/60Hz, 36W output 12VDC 3A, DC plug lock, attachable NA and EU plugs
3	Video HDMI to DVI adapter
4	Audio 3.5mm to RCA Cable
5	WLAN 802.11b/g/n WIFI USB Dongle
6	Mini-serial to DB9-male adapter cable
7	mSATA Heatsink
8	User Manual

Block Diagram



Port Diagram



Contact and Support

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

For all technical support (questions, FAQ, troubleshooting, RMA...), please consult <http://www.tinygreenpc.com/support>