

fit-PC Intense 2

Specifications



Overview

fit-PC Intense 2 is the second generation of the acclaimed miniature fanless PC, and further improves the best-in-class features of its predecessor with 4th and 5th generations Intel® Core™ i7 Processor, a 3rd display with 4K resolution support, a 3rd internal SATA device, 802.11ac WLAN, cellular communication, a pair of Intel Gbit Ethernet NICs, 2 extra USB 3.0 ports for a total of 4 and 2 additional RS232 ports.

fit-PC Intense 2 brings efficiency to a new level with 30% higher performance than its predecessor and 40% lower idle power of under 6W. It is designed for user serviceability – hard disk, RAM and mini-PCIe cards are all accessible through a one-screw service door at the bottom of the computer.

Intense PC 2: Specifications and Models

System	IPC2 i3 Barebone	IPC2 i5 Barebone	IPC2 i7 Barebone
Part Number	IPC2-C4010-WACB-FMUSB3	IPC2-C4300-WACB-FMUSB3	IPC2-C4600-WACB-FMUSB3
Block Diagram	IPC2 Block Diagram	IPC2 Block Diagram	IPC2 Block Diagram
Current HW Revision	1.1	1.1	1.1
Long Term Availability	2020	2020	2020
Processor			
Type	Intel 4th Gen Core i3-4010U Processor (Haswell)	Intel 4th Gen Core i5-4300U Processor (Haswell)	Intel 4th Gen Core i7-4600U Processor (Haswell)
Cores	64-bit dual core	64-bit dual core	64-bit dual core
Clock speed	1.7GHz	1.9GHz (turbo boost up to 2.9GHz)	2.1GHz (turbo boost up to 3.3GHz)
TDP	15W	15W	15W
Chipset	Intel Mobile Lynx Point LP PCH (MCP package)	Intel Mobile Lynx Point LP PCH (MCP package)	Intel Mobile Lynx Point LP PCH (MCP package)
Memory			
Supported	2x SO-DIMM 204-pin DDR3L SDRAM memory slots Up to 16GB (2x 8GB) Non-ECC DDR3L-1600 (1.35V)	2x SO-DIMM 204-pin DDR3L SDRAM memory slots Up to 16GB (2x 8GB) Non-ECC DDR3L-1600 (1.35V)	2x SO-DIMM 204-pin DDR3L SDRAM memory slots Up to 16GB (2x 8GB) Non-ECC DDR3L-1600 (1.35V)
Installed	Not installed	Not installed	Not installed
Storage			
Supported	1x SATA up to 6 Gbps (SATA 3.0) for internal 2.5" HDD/SSD 1x mSATA slot up to 6 Gbps (SATA 3.0)	1x SATA up to 6 Gbps (SATA 3.0) for internal 2.5" HDD/SSD 2x mSATA slot up to 6 Gbps (SATA 3.0)	1x SATA up to 6 Gbps (SATA 3.0) or internal 2.5" HDD/SSD 2x mSATA slot up to 6 Gbps (SATA 3.0)
Installed	Not installed	Not installed	Not installed
Graphics			
GPU	Intel HD 4400 Graphics Triple display mode supported	Intel HD 4400 Graphics Triple display mode supported	Intel HD 4400 Graphics Triple display mode supported
Display Interface 1	HDMI 1.4a up to 4096 x 2304 @ 24 Hz	HDMI 1.4a up to 4096 x 2304 @ 24 Hz	HDMI 1.4a up to 4096 x 2304 @ 24 Hz
Display Interface 2	DisplayPort 1.2 up to 3200 x 2000 @ 60 Hz	DisplayPort 1.2 up to 3200 x 2000 @ 60 Hz	DisplayPort 1.2 up to 3200 x 2000 @ 60 Hz
Display Interface 3	HDMI 1.4a up to 4096 x 2304 @ 24 Hz	HDMI 1.4a up to 4096 x 2304 @ 24 Hz	HDMI 1.4a up to 4096 x 2304 @ 24 Hz
Discrete Graphics	N/A	N/A	N/A
Audio			
Codec	Realtek ALC888-VC2 HD audio codec	Realtek ALC888-VC2 HD audio codec	Realtek ALC888-VC2 HD audio codec
Audio Output	Analog stereo output Digital 7.1+2 channels S/PDIF output 3.5mm jack	Analog stereo output Digital 7.1+2 channels S/PDIF output 3.5mm jack	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	Analog stereo Microphone input Digital S/PDIF input 3.5mm jack	Analog stereo Microphone input Digital S/PDIF input 3.5mm jack

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Networking			
LAN	2x GbE LAN ports LAN1: Intel I218 GbE PHY (MAC integrated into the chipset) (RJ-45) LAN2: Intel I211 GbE controller (RJ-45) LAN3-6: N/A	2x GbE LAN ports LAN1: Intel I218 GbE PHY (MAC integrated into the chipset) (RJ-45) LAN2: Intel I211 GbE controller (RJ-45) LAN3-6: N/A	2x GbE LAN ports LAN1: Intel I218 GbE PHY (MAC integrated into the chipset) (RJ-45) LAN2: Intel I211 GbE controller (RJ-45) LAN3-6: N/A
Wireless	WLAN 802.11 ac + Bluetooth	WLAN 802.11 ac + Bluetooth	WLAN 802.11 ac + Bluetooth
Connectivity			
USB	4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0	4x USB 3.0 2x USB 2.0
Serial	3x Serial communication ports COM1: Full RS232 via mini serial connector COM2: 2-wire RS232 via mini serial connector COM3: 2-wire RS232 via mini serial connector	3x Serial communication ports COM1: Full RS232 via mini serial connector COM2: 2-wire RS232 via mini serial connector COM3: 2-wire RS232 via mini serial connector	3x Serial communication ports COM1: Full RS232 via mini serial connector COM2: 2-wire RS232 via mini serial connector COM3: 2-wire RS232 via mini serial connector
SD	N/A	N/A	N/A
Special I/O	1x micro SIM slot (6 pins) ⁴	1x micro SIM slot (6 pins) ⁴	1x micro SIM slot (6 pins) ⁴
Expansion	Half-size mini-PCIe socket Full-size mini-PCIe/mSATA socket ² FACE Modules	Half-size mini-PCIe socket Full-size mini-PCIe/mSATA socket ² FACE Modules	Half-size mini-PCIe socket Full-size mini-PCIe/mSATA socket ² FACE Modules
Advanced Technologies			
vPRO	No	Yes (Intel vPRO Technology) ⁵	Yes (Intel vPRO Technology) ⁵
AMT	No	Yes (Intel Active Management Technology) ⁵	Yes (Intel Active Management Technology) ⁵
CPU Virtualization	Yes	Yes	Yes
AES	Yes	Yes	Yes
Special Functionality	Auto-On Wake-on-LAN Wake-on-Timer PXE Boot Watchdog	Auto-On Wake-on-LAN Wake-on-Timer PXE Boot Watchdog	Auto-On Wake-on-LAN Wake-on-Timer PXE Boot Watchdog
Bootloader			
Vendor	Phoenix	Phoenix	Phoenix
Features	BIOS Legacy mode UEFI 2.2 mode Secure Boot	BIOS Legacy mode UEFI 2.2 mode Secure Boot	BIOS Legacy mode UEFI 2.2 mode Secure Boot
Operating System			
Supported	Windows 7/8/10 Windows Server 2012 R2 Linux	Windows 7/8/10 Windows Server 2012 R2 Linux	Windows 7/8/10 Windows Server 2012 R2 Linux
Official Linux	Linux Mint 18 Cinnamon (64-bit)	Linux Mint 18 Cinnamon (64-bit)	Linux Mint 18 Cinnamon (64-bit)
Installed	Not installed	Not installed	Not installed

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Operating Conditions			
Input Voltage	Unregulated 10 – 15VDC input ¹	Unregulated 10 – 15VDC input ¹	Unregulated 10 – 15VDC input ¹
Power Consumption	6W – 24W	6W – 24W	6W – 24W
Operating Temperature	1. Commercial HDD models: 0°C to 50°C SSD models: 0°C to 70°C 2. Extended (TE) SSD models only: -20°C to 70°C 3. Industrial (TI) SSD models only: -40°C to 70°C	1. Commercial HDD models: 0°C to 50°C SSD models: 0°C to 70°C 2. Extended (TE) SSD models only: -20°C to 70°C 3. Industrial (TI) SSD models only: -40°C to 70°C	1. Commercial HDD models: 0°C to 50°C SSD models: 0°C to 70°C 2. Extended (TE) SSD models only: -20°C to 70°C 3. Industrial (TI) SSD models only: -40°C to 70°C
Relative Humidity	10% to 90% (operation) 5% to 95% (storage)	10% to 90% (operation) 5% to 95% (storage)	10% to 90% (operation) 5% to 95% (storage)
MTTF	> 100,000 hours	> 100,000 hours	> 100,000 hours
Enclosure			
Material	Die Cast Aluminum	Die Cast Aluminum	Die Cast Aluminum
Cooling	Passive Cooling Fanless Design	Passive Cooling Fanless Design	Passive Cooling Fanless Design
Dimensions	19cm x 16cm x 4cm	19cm x 16cm x 4cm	19cm x 16cm x 4cm
Weight	1015gr	1015gr	1015gr
Package			
In the Box	1. Intense PC2 computer 2. Power supply: input 100-240VAC 50/60Hz,60W output 12VDC 5A, DC plug lock; North American AC cord 3. Video HDMI to DVI adapter 4. Audio 3.5mm to RCA cable 5. WiFi 2.4GHz/5GHz band 2 antennas (in some models) 6. Mini-serial to DB9-male adapter cable	1. Intense PC2 computer 2. Power supply: input 100-240VAC 50/60Hz,60W output 12VDC 5A, DC plug lock; North American AC cord 3. Video HDMI to DVI adapter 4. Audio 3.5mm to RCA cable 5. WiFi 2.4GHz/5GHz band 2 antennas (in some models) 6. Mini-serial to DB9-male adapter cable	1. Intense PC2 computer 2. Power supply: input 100-240VAC 50/60Hz,60W output 12VDC 5A, DC plug lock; North American AC cord 3. Video HDMI to DVI adapter 4. Audio 3.5mm to RCA cable 5. WiFi 2.4GHz/5GHz band 2 antennas (in some models) 6. Mini-serial to DB9-male adapter cable
Warranty	5 Years ³	5 Years ³	5 Years ³
Notes	1. Nominal input voltage: 12V 2. Shared with mSATA 3. For products purchased since 1-Jan-2013 4. For use with Cellular Modem kit	1. Nominal input voltage: 12V 2. Shared with mSATA 3. For products purchased since 1-Jan-2013 4. For use with mini PCIe Cellular Modem module 5. Supported on LAN1 only	1. Nominal input voltage: 12V 2. Shared with mSATA 3. For products purchased since 1-Jan-2013 4. For use with Cellular Modem kit 5. Supported on LAN1 only 6. The product will be available after 2016 with similar or better CPU

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