

Compulab IPC3 Kaby-lake mini-PC with advanced networking extensions

Yokneam, Israel – 19-Jan-17 – Compulab introduces IPC3 – a miniature fanless PC with 7th generation Intel® Core™ processor. IPC3 supports Function And Connectivity Extension (FACE) Modules. With IPC3 Compulab introduces a trio of new FACE Modules for advanced networking applications.

IPC3 features

IPC3 has the proven ruggedized form-factor of IPC2 with improved passive cooling to enable 7th generation Intel® Core™-i7 to operate at industrial temperature range of -40°C to 70°C. Compulab provides 5 year warranty on IPC3. Standard IPC3 features include up to 32 GB RAM, multiple storage devices spanning M.2, mSATA and 2.5", dual 4K display interfaces, dual Gbit Ethernet and support for WiFi and cellular data communication. A key feature of IPC3 is support for FACE Modules – internal extension cards that add special functionality on top of the basic configuration.

FACE Modules

Function And Connectivity Extension Modules allow seamless enhancement of the functionality of IPC3 and other Compulab PCs, like filelet-T and Airtop. The trio of FACE-Modules launched are FM-OPLN, FM-POE 1.1 and FM-EBP.

FM-OPLN – dual Fiber-Optic LAN

FM-OPLN adds dual Gbit Ethernet SFP+ ports for fiber-optic LAN built-in IPC3, thus eliminating the need for external media converter while enabling true fiber-to-the-desk (FTTD) in extremely compact form factor.

Fiber-optic LAN has some benefits over copper LAN, among them - longer transmission distance, immunity to electromagnetic interference and better security.

FM-POE 1.1 – quad Power-over-Ethernet

FM-POE 1.1 has 4 Gbit Ethernet ports with Power-over-Ethernet. Each port is IEEE802.3af compliant and can supply up to 15.4W. Each port has a GbE controller (Intel i211) on a dedicated PCIe lane. Multiple PoE ports are useful for IP cameras, IoT devices, IP telephony, thin clients and other scenarios where reducing cabling is desired.

IPC3 with FM-POE is one of the smallest integrated PoE PCs. It eliminates the need for an external PoE injector while providing full Gbit Ethernet bandwidth to each of the ports. Two additional GbE ports are built-in the basic configuration of IPC3.

FM-EBP – Gigabit Ethernet bypass switch

IPC3 with FM-EBP is a stand-alone PC with integrated Gigabit Ethernet bypass switching. It enables both passive and active switching without the need for heartbeat packets. Ethernet bypass can be directed to an in-line backup PC.

FM-EBP is useful for ensuring continuous network integrity, even in scenarios such as system crash or hardware malfunction.

Other FACE Modules

IPC3 is compatible with other Compulab FACE Modules.

FM-LAN – adds 4 GbE ports on top of the IPC3 built-in dual GbE ports for a total of 6 GbE ports.

FM-SER – adds 6 RS232/RS485 ports on top of the IPC3 built-in 3 RS232 ports for a total of 9 serial ports.

FM-XTDM2 – adds two miniPCIe ports on top of the IPC3 built-in port for a total of 3 miniPCIe ports.

FM-VC – enables connecting to IPC3 up to 16 PAL/NTSC analog cameras with audio for advanced DVR applications.

IPC3 Specifications

CPU: Intel® Core™ i7-7500U Processor (4M Cache, up to 3.50 GHz) | Intel® Core™ i5-7200U Processor (3M Cache, up to 3.10 GHz)

RAM: Up to 32 GB DDR3L 1600 dual channel

Storage: Internal 2.5" HDD/SSD + 2x mSATA 6 Gbps + SATA M.2 2260

Display: DisplayPort 1.2 (4K@60 Hz) + HDMI 1.4a (4K@24 Hz)

Audio: S/PDIF 7.1 input/output + stereo line-out / MIC in

LAN: 2x Gbit Ethernet (Intel NICs)

WLAN: 802.11ac + Bluetooth 4.0, dual -antenna

Cellular communication: On-board uSIM socket and full-size miniPCIe for cellular modem

USB: 4x USB3 + 2x USB2

Serial: 3x RS232

Enclosure: Passively cooled die-cast aluminum

Dimensions: 16 cm x 19 cm x 4 cm ; 6.3" x 7.4" x 1.57"

Power consumption: 6W – 24W

Availability

IPC3 can be pre-ordered now from Compulab starting from \$693 for IPC3 i5.

For more information

<http://www.fit-pc.com/web/products/ipc3>

Media kit: <http://www.fit-pc.com/web/products/ipc3/ipc3-gallery>

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