



IPC/COMPACTc7

This fan less COMPACTc7 generation is based on the 7th Generation Intel® Core™ i3, i5 and i7 processor technology and offers a wide range of interface options. The robust and uncompromising industrial design allows the implementation in the most demanding applications and guarantees long term availability.

- **Multi-core 64-bit Intel® Core™ processor**
- **24/7 continuous operation**
- **No moving parts | Fan less design**
- **Product lifecycle management**
- **Long term availability**



Product Highlights

Hardware Watchdog
 Temperature supervision
 Real time clock
 ESD- protection on all interfaces
 Windows IoT ready

Product Feature

Intel® Core™ i Series (7th Generation)
 up to 2.8GHz, 2 Cores
 up to 32GB RAM
 DP++, Ethernet, USB3, RS232, Mini PCIe
 Optional I/O Cards, Serial, CAN, digital I/O

Markets / Applications

Industrial Automation
 Medical
 Cleantech
 Building Automation

	Order Code	CPC/MITX7i3H-A101S ¹	CPC/MITX7i5I-A101S ¹	CPC/MITX7i7J-A101S ¹
Processor / Performance				
Kaby Lake - Intel® i3-7100U up to 2.4 GHz 64-bit		•		
Kaby Lake - Intel® i5-7300U up to 2.6 GHz 64-bit			•	
Kaby Lake - Intel® i7-7600U up to 2.8 GHz 64-bit				•
Intel® HD Graphics 620 (GT2) DirectX 12 support		up to 1.0GHz	up to 1.1GHz	up to 1.1GHz
Intel® Hyper-Threading Technology		•	•	•
Intel® Virtualization Technology (VT-x)		•	•	•
Intel® Virtualization Technology for Directed I/O (VT-d)		•	•	•
Memory				
DDR4 2133MHz dual channel RAM		4GB	8GB	16GB
DDR4 2133MHz dual channel RAM up to 32GB		optional	optional	optional
M.2 Type B ² (3042/2242) - with M.2 MLC flash drive (Cactus Technologies)		256GB	256GB	256GB
Features				
Real time clock PC compatible		•	•	•
Multi Stage Watchdog		•	•	•
Battery backup		•	•	•
Communication Interfaces				
DisplayPort++		2	2	2
SATA 3 interface standard ²		2	2	2
USB version 2.0 ²		4	4	4
USB version 3.0 (Type A)		4	4	4
Ethernet 10/100/1000 Mbit (Intel® i219 / i211)		2	2	2
RS232 ESD protected (DSUB9)		2	2	2
HD Audio		•	•	•
Technical Data				
Dimensions 202 x 180 x 62 mm (housing)		•	•	•
Net weight [gram]		~ 1800	~ 1800	~ 1800
Input voltage 12 ... 24VDC non-isolated		± 5%	± 5%	± 5%
Current consumption typ. [mA] @ 24V without Add-Ins		~ 800	~ 800	~ 800
Power consumption typ. [Watt] @ 24V without Add-Ins		~ 19	~ 19	~ 19
Environmental Conditions				
Standard operating temperature (ambient) ³		0°C ... +50°C	0°C ... +50°C	0°C ... +45°C
Storage temperature -20 ... +70° C		•	•	•
Protection standard		IP30	IP30	IP30
Shock: designed to meet EN60068-2-27		•	•	•
Vibration: designed to meet EN60068-2-6		•	•	•
EMC according to EN-55022/55024		•	•	•
Safety according to EN62368-1:2016		•	•	•
MTBF 200'000h ^{estimated, excluding battery}		tbd	tbd	tbd
Optional enhancement cards				
Wireless Module (LTE / GPS / WiFi) ¹		optional	optional	optional
Digital I/O ¹		optional	optional	optional
Analog I/O ¹		optional	optional	optional
Dual PEAK CAN version 2.0b, SJA1000, isolated ¹		optional	optional	optional

¹ Please contact factory for minimum order quantities

² Internal connector

³ Depending on use case, installation situation and interface connection. Please see user documentation.

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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industrial computing