

MXC-6400 Series

Fanless Embedded PCs with Intel® Core™ i7 / i5 / i3
6th Gen. CPUs

Features

- Intel® Core™ i7/i5/i3 6th Gen. CPU
- 2x DDR4 SODIMM RAM, up to 32GB
- Intel® QM170 chipset
- 1x PCI + 2x PCIe Gen3 x8 or 1x PCI + 1x PCIe Gen3 x16
- Operating temperature: -20° ~ 70 °C



MXC-6400 Series – Robust design and high computing power

The MXC-6400 series is characterized by a very high energy efficiency and is therefore very economical in operation (15W TDP). They have two DDR4 RAM slots and can be equipped with up to 32 GB RAM. In the basic configuration Bressner delivers the three computers with two GB DDR4 RAM. As main memory a 128 GB SSD is installed and the whole unit is controlled by a QM170 chipset. The integrated graphics chipset provides up to 4K resolution with 3840x2160 pixels at 60 Hz and the video signal can be output to two monitors via the dual display ports.

Various connection options via PCIe, PCI or digital I/Os

To meet the different needs of different application platforms and development environments, the MXC-6400 series is equipped with two PCIe x8 slots and one PCI slot or one PCIe x16 slot and one PCI expansion slot – with support for second-generation PCIe. With two DisplayPorts and one DVI-I connector, the computers offer three independent display connection options. A wide range of peripherals can be easily connected via the six external USB ports – four of which offer the fast USB 3.0. Users also have an internal USB port, sixteen isolated digital inputs and outputs each, and two onboard SATA III ports for 2.5-inch SSDs or hard drives, including support for Raid 0 and Raid 1. This allows the system to automatically create a backup copy of important data. The two GbE-LAN ports offer the practical teaming function.

Extreme performance for graphics or video applications

The embedded computers of the MXC-6400 series were designed for use under challenging conditions. Therefore they are extremely robust and suitable for extreme temperatures down to -20°C or 70°C without any problems. They are also characterized by a compact design, a fanless configuration and optimal heat dissipation. Thanks to the high-performance equipment, the slim computers are predestined for all kinds of computationally and graphically intensive tasks. Thus they are particularly well suited for applications such as high-resolution imaging processes in medical technology, industrial image processing, machine automation, sophisticated measurement and testing technology, maritime automation and monitoring tasks. However, thanks to their high reliability and versatile and easy configurability, they can also be used professionally in many other areas.

Optional Accessories	
MXC-6400 Optional Fan Module	P/N: 91-95199-0010
8/16/32 GB DDR4 Option	Upgrade to 1x 8GB/ 2x 8GB/ 2x 16GB DDR4 SODIMM
2.5" SATA HDD/SSD & CFast	Factory-installed and test
160W AC-DC Adapter	160W industrial grade AC-DC adapter (-20 to 70°C, -4°F to 158°F)
Extended Temperature Option*	Optional screening service to extended operating temperature (-20° to 70°C)
Kit for Internal USB Wafer Connector	P/N: 91-95199-100E (including 2 sets) A cable for type A USB connector, bracket and screws for fixing the cable

*Extended operating temperature is optional and requires use of an industrial solid-state drive storage device or CFast card

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BRESSNER
A ONE STOP SYSTEMS COMPANY

Specifications	MXC-6401D	MXC-6402D	MXC-6403D
SYSTEM			
CPU	Intel® Core™ i7-6820EQ 4 Core/8 Threads, 2.8GHz, 8M Cache (Max Turbo Frequency 3.5 GHz)	Intel® Core™ i5-6440EQ 4 Core/4 Threads, 2.7GHz, 6M Cache (Max Turbo Frequency 3.4 GHz)	Intel® Core™ i3-6100E 2 Core/4 Threads, 2.7 GHz, 3M Cache
Chipset	Intel® QM170		
RAM	Up to 32GB DDR4, dual SODIMMs		
Storage	Up to 2x 2.5" SATA drives (supports RAID 0/ 1/ 5/ 10) 1x CFast type II		
AMT	Intel® iAMT		
TPM	TPM 1.2		
Watchdog	Watchdog timer support		
Expansion	1x PCI + 2x PCIe Gen3 x8 or 1x PCI + 1x PCIe Gen3 x16 (auto-switched) 2x Full size mini PCIe/x USIM		
Operating System	Win10/Win7/Embedded Standard 7 Linux® Ubuntu 16.04 LTS		
INTERFACE			
Ethernet	3x GbE (2x Intel® I210IT + 1x Intel® I219 PHY)		
USB	1x USB 2.0 ports (internal) 6x USB 3.0 ports		
COM	COM 1/2: 2x RS-232/422/485 COM 3/4: 2x RS-232		
Digital I/O	16-CH DI and 16-CH DO with 1.5KV isolation		
Video	1x DVI-I 2x Display Port (4K2K resolution)		
Audio	1x Mic-in and Line-out		
Other	PS/2 for mouse and keyboard		
ENVIRONMENTAL			
Cooling	Fanless Optional hot-pluggable fan module with smart fan control		
Power Supply	DC input: Built-in 9 ~32V DC wide range input 3x pluggable connectors with latch (GND, V-, V+) AC input: 160W external AC-DC adapter (optional)		
Remote Control & LED	3-pin remote power on/off switch on the front		
Operating Temperature	Standard: 0° ~ 50°C (with HDD) Extended: -20° ~ 70°C (with ind. SSD or CFast)		
Storage Temperature	-40° ~ 85°C (without HDD/SSD/CFast)		
Vibration / Shock Resistance	Vibration: Operating, 5 Grms, 5-500 Hz, 3 axes (w/ CFast or SSD) Operating, 0.5 Grms, 5-500 Hz, 3 axes (w/ HDD) Shock: Operating, 50 G, half sine 11 ms duration (w/ CFast or SSD)		
Humidity	~95% @ 40°C, non-condensing		
Dimensions	170 (W) x 225 (D) x 200 (H) mm		
Weight	4kg		
Mounting	Wallmount		
Certifications	Safety: UL/cUL, CB EMC: CE & FCC Class A ESD: Contact +/-4 KV and Air +/-8 KV		