

Programmable Embedded Controller with Intel® Core™ i3/ i5/i7 6./7.Gen. CPU



Features

- Outperform Fanless, Cable-less and Modularized Design
- Wide Range DC Power Input (9 ~ 36VDC)
- Rich Onboard I/O and Expansion Slots
- RS-485 Auto-flow Control Supported
- 3 independent Displays
- Intel® SSD Compatible
- TPM 2.0 Control
- 4K immersive Graphics, Media Performance

System

CPU	Intel® 6th/7th Generation, T Version CPU Core™ i5-6500T, 6MB 4 Core, 2.5-3.1 GHz or other Socket Type Core i3 / i7 CPU
Memory	2 x 260-Pin DDR4L Sockets, up to 32GB
Chipset	Intel® Q170/ C236 (LGA1151)
Graphics	Integrated in Intel® Core, HD510 / 530
LAN Chipset	1 x Intel® i219 PCIe controller 1 x Intel® i210AT PCIe controller
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	5 x COMs, COM1 RS-232/422/485 0/5/12V COM2 RS-232/422/485 0V COM3-COM5 RS-232 0V
USB Port	6 x USB 3.0 + 7x USB 2.0 ports
LAN	2 x RJ-45 Gigabit Ethernet ports
Video Port	1 x DVI-I connector for DVI-D 2 x DisplayPort connector (3840x2160@ 60Hz)
Audio	Mic-in/Line-out with Realtek ALC887 HD Audio CODEC
KB/MS	PS/2 interface Keyboard/ Mouse via Y-cable
TPM Control	Infineon SLB9665TT.2.0 TPM Module
Expansion Bus	2 x PCIe x8 + 2 x PCI slots (4x) 1 x PCIe x16 + 3 x PCI slots (4X) 1 x PCI + 1 x PCIe x16 slots(2x)

Environmental

Operating Temp.	-10 ~ 50°C ambient w/ air flow
Storage Temp.	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10 ~ 95% @ 55°C (non-condensing)
Vibration	5~500Hz 3G rms X,Y,Z axis w/ SSD, according to IEC 68-2-64 40G peak acceleration (11 m sec. duration), operation
Shock & Crash	60G peak acceleration (11 m sec. duration), non operation According to IEC 68-2-27

Qualification

Certification	CE, FCC Class A
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Power Requirement

Power Input	DC 9~36V input (w/ 3-pin DC input terminal block combine remote power on/off switch)
Power Consumption	2.59A@19V (Typical)

Storage

Type	2 x 2.5" drive bay for SATA Device, Supporting 600MB/s HDD transfer rate, Raid optional 1 x CFAST, 1x mSATA socket
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Mechanical

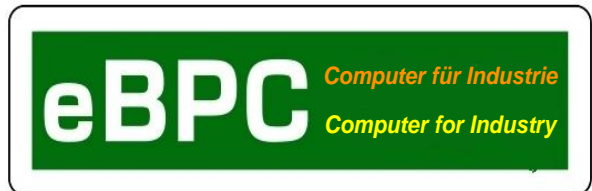
Construction	Aluminum alloy
Mounting	Wall-mount/DIN-rail mounting(optional)
Weight	4,86 kg
Dimensions (W x H x D)	179 x 218 x 226 mm (4 Slots) 143 x 217 x 226 mm (2 Slots)

OS Support

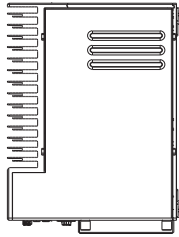
Windows 10 (64-bit)
Windows 7 (32/64-bit) (Skylake-S Series only)
Windows 8.1 (64-bit) (Skylake-S Series only)
Linux Fedora 23 (by request)
Linux Ubuntu 16.04 (by request)

Ordering Information

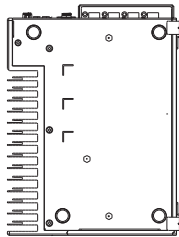
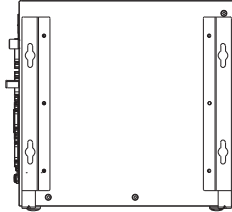
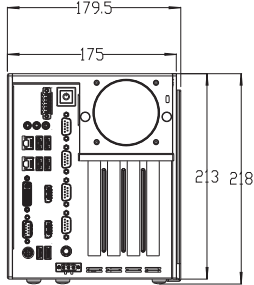
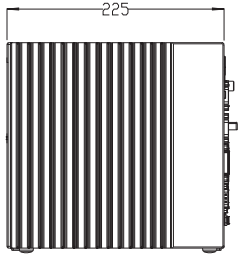
M5806-2	M5806 programmable Embedded Controller w/ 2 expansion slots
M5806-4	M5806 programmable Embedded Controller w/ 4 expansion slots



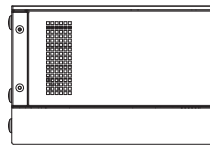
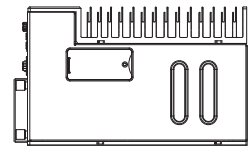
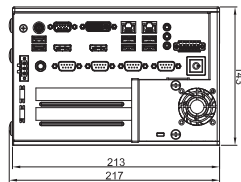
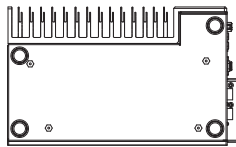
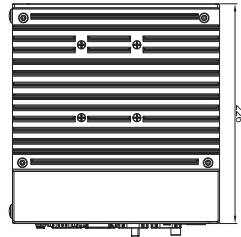
Dimensions



Mechanical Overview (4-Slot SKU)



Mechanical Overview (2-Slot SKU)



Standard Accessories

WMK-M500 Wall-mount kit for BPC-500 Series

PAC-160W 19V/ 160W AC/DC adapter kit



DRK- M500 Din rail mounting kit for BPC-500 Series

