

BT-8100

Fanless Box PC with Intel® Core™ i9/i7/i5/i3 10th Gen.

Features

- Intel® Core™ i9/i7/i5/i3 10th Gen.
- Two independent displays support (HDMI x1 + VGA x 1 and DVI-D x 1)
- 1x PCIe x16 & 1x PCI5x
- RAID 0,1 support (W480E optional)

System

CPU	Intel® 10th generation Core™ i9/i7/i5/i3 processor in LGA1200 socket
Chipset	Intel® H420E / W480E (optional)
Memory	2x 260-pin DDR4 SO-DIMM sockets, supporting 2933 MHz SDRAM up to 64GB
Graphics	Integrated Intel® HD Graphics
ATA	2x Serial ATA ports with 600MB/s HDD transfer rate
LAN chipset	1x Intel® WGI225LM 2.5GigE LAN 1x Intel® WGI211AT GbE controller 1x Intel® WGI219LM GbE controller (w/o iAMT, H420E) (w/ iAMT, W480E)
Watchdog timer	1~255 levels reset

I/O

Serial Port	2x RS-232/422/485 configurable via DB-9 connectors 4x RS-232 ports via DB-9 connectors
USB	6x USB 3.2 Gen1 / 2.0 ports, 2x USB 2.0 ports Internal USB dongle (optional)
LAN	3x RJ-45 ports for GbE
Video	1x HDMI 1.4b 1x DB-15 female connector for Analog RGB 1x DVI-D female connector for digital video output *Support 2 independent displays *Support 3 independent displays (W480E only)
Selectable port	1x DB25 connector for DIO (8 in/8 out) port or LPT port (either one, default is DIO)
Audio	1x Audio Mic-in, Line-out
Expansion Bus	1x full-size Mini-card interconnected with SIM card for optional WiFi/3G/4G/GPS or I/O Expansion (PCIe x 1+USB2.0) 1x M.2 E key (2230) with PCIe1+USB2.0 for Wireless

Environmental

Operating Temp.	-20 ~ 70°C ambient w/ air flow, (w/ 35W TDP CPU, fanless) -20 ~ 55°C ambient w/ air flow (w/ 65W TDP CPU, fanless)
Storage Temp.	-40 ~ 85°C
Humidity	10 ~ 95% @ 70°C, non-condensing
Vibration	3 Grms/5~500Hz/random operation w/ SSD
Shock	Operating 40G (11ms), Non-operating 60G with SSD

Qualification

Certification	CE, FCC Class A
Power Input	DC 9~36V input (w/ 4-pin DC input terminal block, combining remote power on/off switch
Ignition Switch	2-pin terminal block: IGN, GND
Power Consumption	MAX 65W (w/35W TDP CPU, w/o I/O card) MAX 95W (w/65W TDP CPU, w/o I/O card)

Front



Rear



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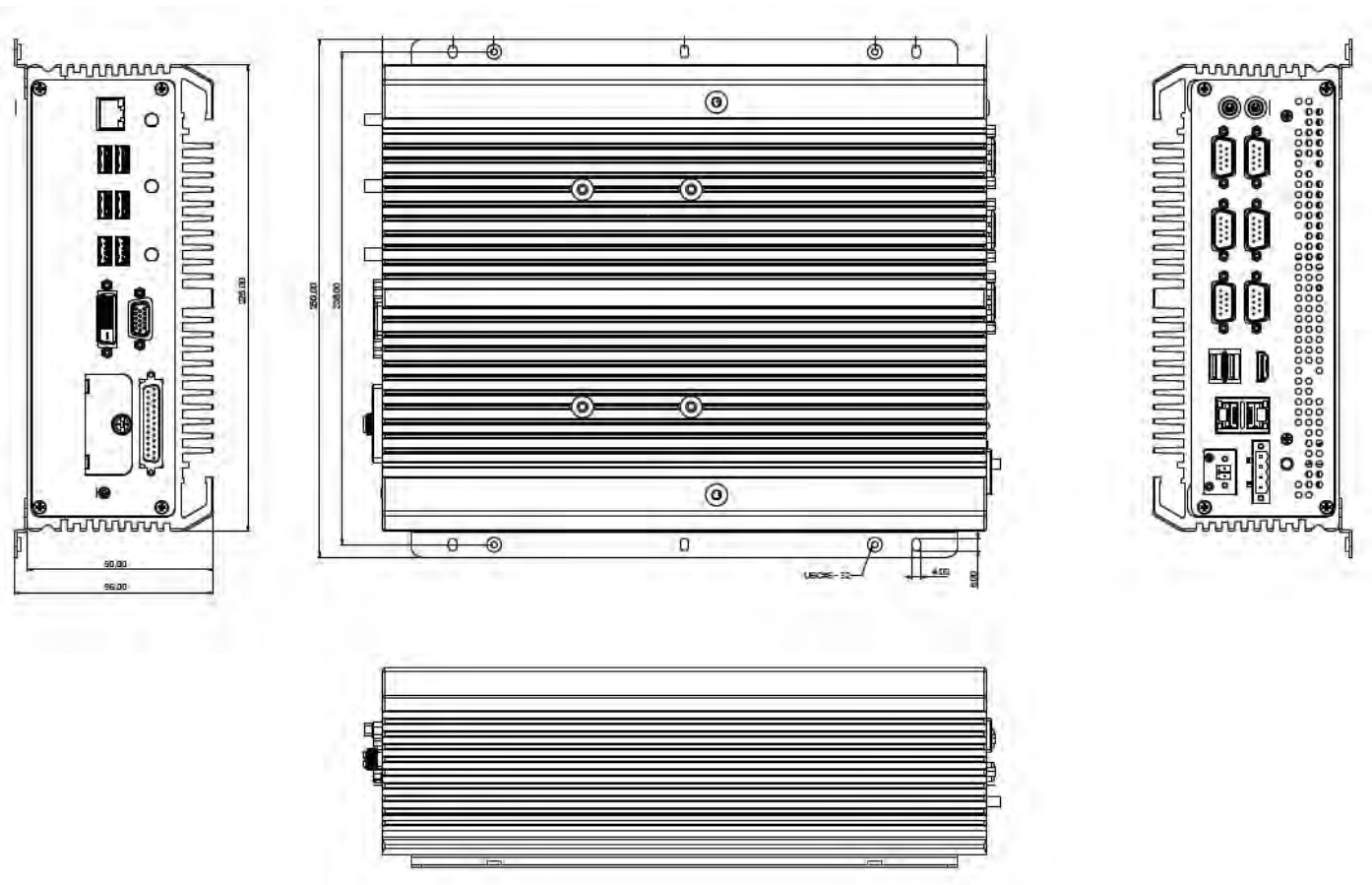
Storage

Type 2x 2.5" drive bays
1x CFast socket, can be outside accessible

Mechanical

Construction	Aluminum alloy
Mounting	Wall-mount
Dimensions	255 x 292 x 90mm
Weight	6.4kg
OS Support	Windows 10 IOT Enterprise 64-bit Linux (Kernel:4.9)

Technical drawing



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Optional Accessories

WMK-7000 Wall-mount kit for BT-7XXX Series



PAC-120W6B-FSP 120W AC/DC adapter kit w/ 2-pin/3-pin/4-pin block



Optional configuration

240GB SSD Intel® 2.5" 240GB SATAIII SSD kit



WIFI-AT4550 Atheros QCNFA324 Wi-Fi module w/ 20&30cm internal wires



ANT-H11 1 x 2dBi HSUPA antenna



ANT-D11 1 x WiFi dual-band 2.4G/5G antenna



Core™ i9-10900E Intel® 10th Gen. Core™ i9-10900E processor, L2/20M, 2.8G

Core™ i9-10900TE Intel® 10th Gen. Core™ i9-10900TE processor, L2/20M, 1.8G

Core™ i7-10700E Intel® 10th Gen. Core™ i7-10700E processor, L2/16M, 2.9G

Core™ i7-10700TE Intel® 10th Gen. Core™ i7-10700TE processor, L2/16M, 2.0G

Core™ i5-10500E Intel® 10th Gen. Core™ i5-10500E processor, L2/12M, 3.1G

Core™ i5-10500TE Intel® 10th Gen. Core™ i5-10500TE processor, L2/12M, 2.3G

Core™ i3-10100E Intel® 10th Gen. Core™ i3-10100E processor, L2/6M, 3.2G

Core™ i3-10100TE Intel® 10th Gen. Core™ i3-10100TE processor, L2/6M, 2.3G

MK-4C-4G/8G/16G DDR4-2400 4GB/8GB/16GB SDRAM DIMM kit



Order information

BT-8100 Fanless system, H420E, with out expansion