

ROC235A

PERFECTRON

19" 1U Rack-mount Intel® QM77 Fanless Rugged System with Intel® Core™ i7/i5/i3 Processors, 9V to 24V DC-in, Wide Temp. -20 to 70°C



KEY FEATURE

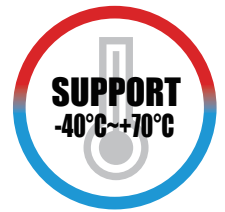
- Supports Intel® 22nm Ivy Bridge Processor i7-3610QE/i5-3610ME/i3-3120ME
- 2 x DDR3 SO-DIMM up to 16 GB
- Supports 2 x 2.5" SATA HDD/SSD
- Multi-display: 1 x DVI-D, HDMI, VGA
- Dual GbE LAN ports
- 4 x USB 3.0 / 2 x USB 2.0
- 9V ~ 24V DC-in

it's perfect!

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19" 1U Rack-mount Intel® QM77 Fanless Rugged System with Intel® Core™ i7/i5/i3 Processors, 9V to 24V DC-in, Wide Temp. -40 to 70°C



Main Features

- Supports Intel® 22nm Ivy Bridge Processor i7-3610QE/i5-3610ME/i3-3120ME
- 2 x DDR3 SO-DIMM up to 16 GB
- Supports 2 x 2.5" SATA HDD/SSD
- Multi-display: 1 x DVI-D, HDMI, VGA
- Dual GbE LAN ports
- 4 x USB 3.0 / 2 x USB 2.0
- 9V ~ 24V DC-in

► Specifications

System

CPU	Intel® 22nm Ivy Bridge Processor (Mobile) socket (rPGA988) Core™ i7-3610QE (4C x 3.3 GHZ), 6M L2 cache (45W) Core™ i5-3610ME (2C x 2.7 GHZ), 3M L2 cache (35W) Core™ i3-3120ME (2C x 2.4 GHZ), 3M L2 cache (35W)
Chipset	Intel® QM77
Ethernet Chipset	Intel® 82579LM & 82574IT GbE
Memory	2 x 204-pin SO-DIMM DDR3 1333/1600 MHz up to 16 GB
Expansion Slot	2 x PCI 1 x Mini PCIe
Storage Device	2 x 2.5" SATA HDD/SSD

Front I/O

Power Button	Yes
Power LED	Yes
HDD LED	Yes
USB	2 x USB 2.0
Reset	Yes

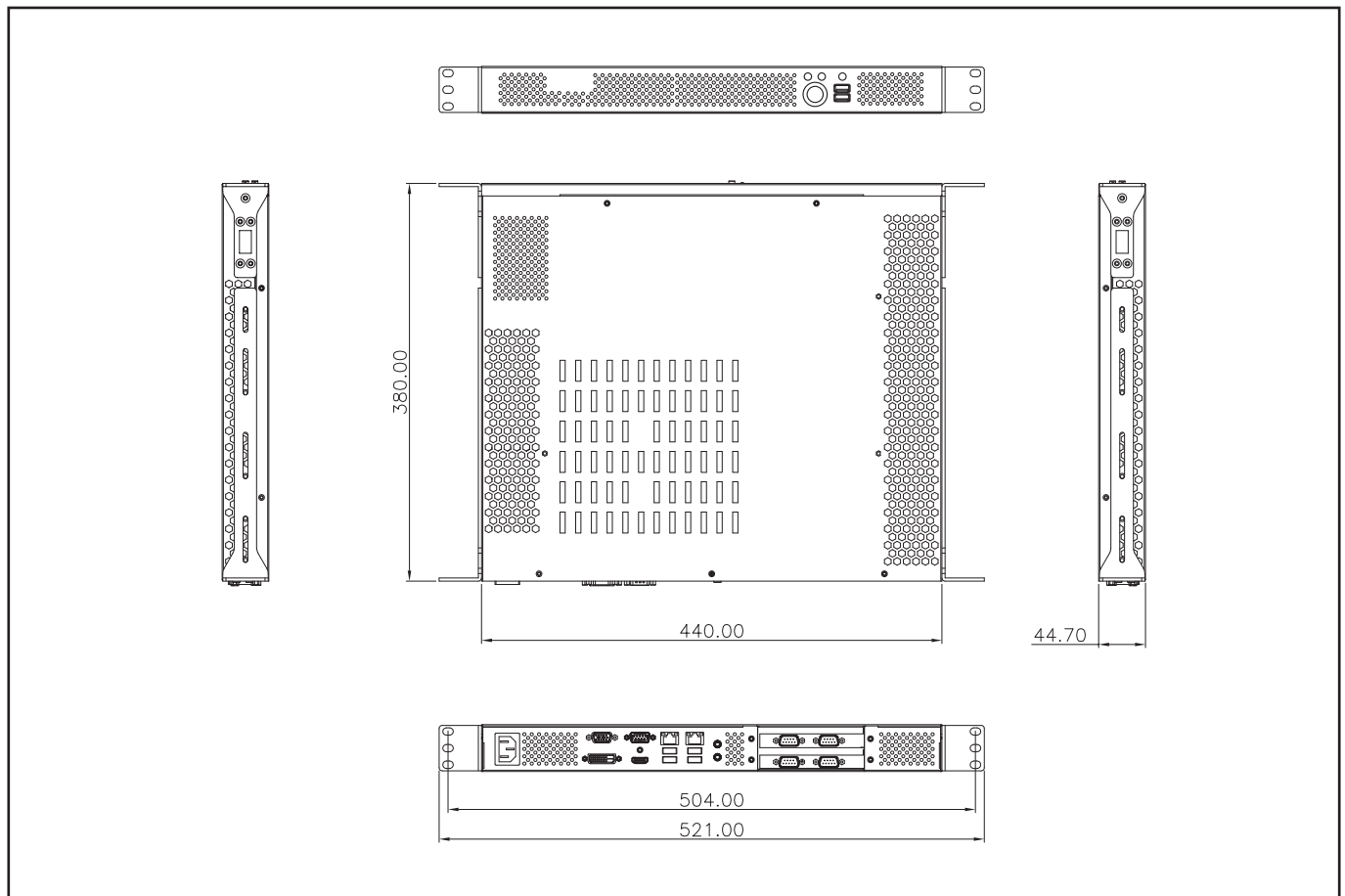
Rear I/O

VGA	1
DVI-D	1
HDMI	1
Ethernet	2 x RJ45
Audio	Mic-in, Line-out
COM	1 x RS232/422/485
USB	4 x USB 3.0
DC-in	1 (Terminal Block)

Mechanical & Environment

Power Requirement	9V to 24V DC-in
Dimension (W x H x D)	440 x 44 x 380 mm (17.32" x 1.73" x 14.96")
Operating Temp.	-40 to 70°C (ambient with air flow)
Storage Temp.	-20 to 80°C
Relative Humidity	10% to 90%, non-condensing
Certifications	CE, FCC

► Mechanical Drawing



► Packing List

- ROC235A Fanless Rugged System
- Driver CD

► Optional Accessories

Power Adapter

19V, 120W, AC/DC power adapter w/o power cord

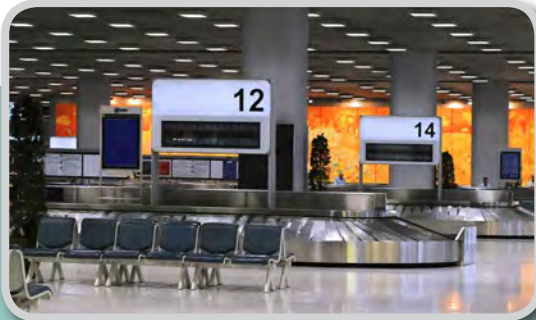
► Ordering Information

Modules

Model Number	Description
ROC235A-ET-i7-3610QE	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i7 Processor, 9V to 24V DC-in (-20 to 70°C)
ROC235A-ET-i5-3610ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i5 Processor, 9V to 24V DC-in (-20 to 70°C)
ROC235A-ET-i3-3120ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i3 Processor, 9V to 24V DC-in (-20 to 70°C)
ROC235A-UT-i7-3610QE	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i7 Processor, 9V to 24V DC-in (-40 to 70°C)
ROC235A-UT-i5-3610ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i5 Processor, 9V to 24V DC-in (-40 to 70°C)
ROC235A-UT-i3-3120ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i3 Processor, 9V to 24V DC-in (-40 to 70°C)



► Applications



ROC235B

PERFECTRON

19" 1U Rack-mount Intel® QM77 Fanless Rugged System with Intel® Core™ i7/i5/i3 Processors, 100V to 240V AC-in, Wide Temp. -20 to 60°C



KEY FEATURE

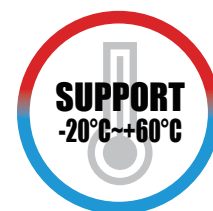
- Supports Intel® 22nm Ivy Bridge Processor i7-3610QE/i5-3610ME/i3-3120ME
- 2 x DDR3 SO-DIMM up to 16 GB
- Supports 2 x 2.5" Easy Swap SSD
- Multi-display: 1 x DVI-D, HDMI, VGA
- Dual GbE LAN ports
- 4 x USB 3.0 / 2 x USB 2.0
- 100V ~ 240V AC-in

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ROC235B

PERFECTRON

19" 1U Rack-mount Intel® QM77 Fanless Rugged System with Intel® Core™ i7/i5/i3 Processors, 100V to 240V AC-in, Wide Temp. -20 to 60°C



Main Features

- Supports Intel® 22nm Ivy Bridge Processor i7-3610QE/i5-3610ME/i3-3120ME
- 2 x DDR3 SO-DIMM up to 16 GB
- Supports 2 x 2.5" Easy Swap SSD
- Multi-display: 1 x DVI-D, HDMI, VGA
- Dual GbE LAN ports
- 4 x USB 3.0 / 2 x USB 2.0
- 100V ~ 240V AC-in

► Specifications

System

CPU	Intel® 22nm Ivy Bridge Processor (Mobile) socket (rPGA988) Core™ i7-3610QE (4C x 3.3 GHZ), 6M L2 cache (45W) Core™ i5-3610ME (2C x 2.7 GHZ), 3M L2 cache (35W) Core™ i3-3120ME (2C x 2.4 GHZ), 3M L2 cache (35W)
Chipset	Intel® QM77
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Expansion Slot	2x PCI 1 x Mini PCIe
Storage Device	2 x 2.5" Easy Swap SSD

Front I/O

Power Button	Yes
Power LED	Yes
HDD LED	Yes
USB	2 x USB 2.0
Reset	Yes

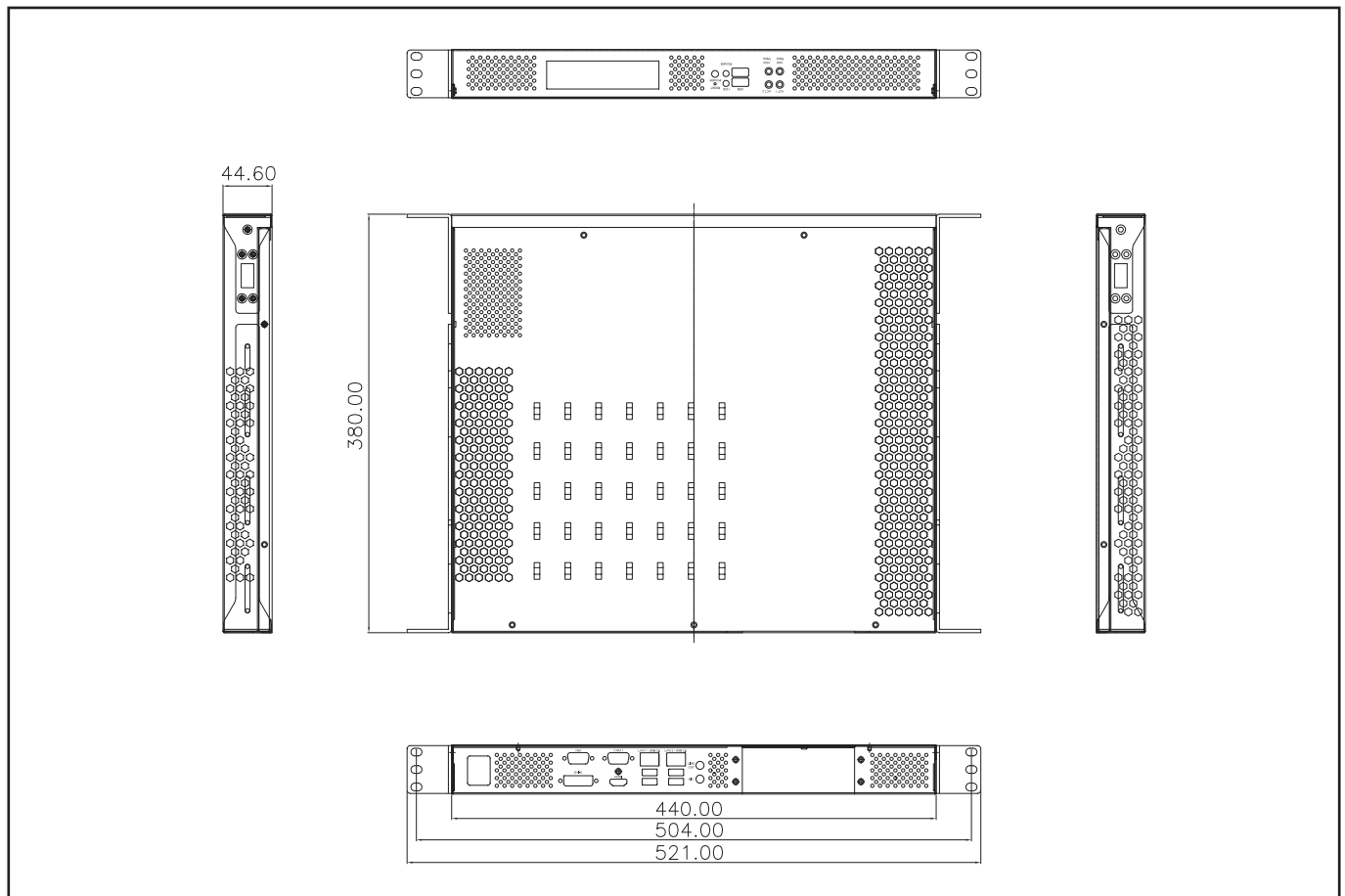
Rear I/O

VGA	1
DVI-D	1
HDMI	1
Ethernet	2 x RJ45
Audio	Mic-in, Line-out
COM	1 x RS232/422/485
USB	4 x USB 3.0

Mechanical & Environment

Power Requirement	100V to 240V AC-in
Dimension (W x H x D)	440 x 44 x 380 mm (17.32" x 1.73" x 14.96")
Operating Temp.	-20 to 60°C (ambient with air flow)
Storage Temp.	-20 to 80°C
Relative Humidity	10% to 90%, non-condensing
Certifications	CE, FCC

► Mechanical Drawing



► Packing List

- ROC235B Fanless Rugged System
- Driver CD

► Ordering Information

Modules

Model Number	Description
ROC235B-ET-i7-3610QE	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i7 Processor, 100V to 240V AC-in (-20 to 60°C)
ROC235B-ET-i5-3610ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i5 Processor, 100V to 240V AC-in (-20 to 60°C)
ROC235B-ET-i3-3120ME	Intel® QM77 Fanless Rugged System with Intel® Ivy Bridge Core™ i3 Processor, 100V to 240V AC-in (-20 to 60°C)



► Applications

