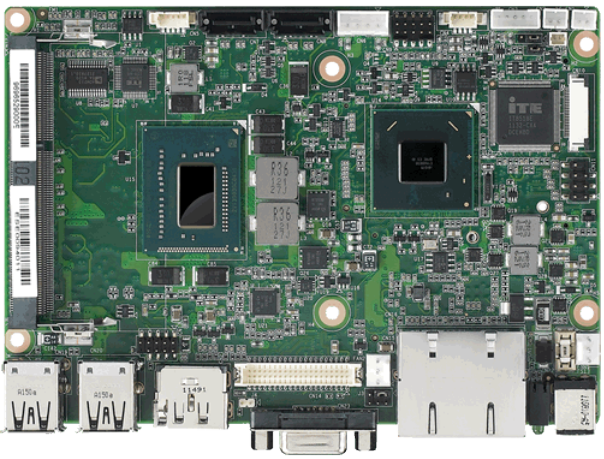
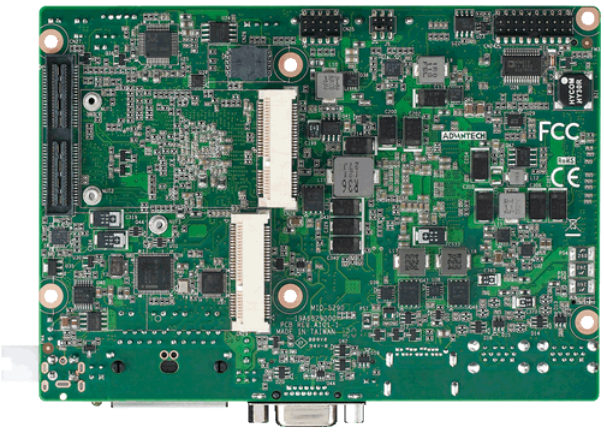
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MIO-5290 3.5" SBC







Intel® Core™ i7, i3 and Celeron + Intel QM77 PCH i7 3555LE 2.5 GHz / i7 3517UE 1.7 GHz / i3 3217UE 1.6GHz Dual-Core

Up to 8GB DDR3 1600MHz, DDR3L 1333 MHz

1x RS-232, RS-232/422/485

2x USB 2.0, 2x USB 3.0 Ports

2x 10/100/1000 Mbps

VGA/HDMI/DP/LVDS

DirectX11, OpenGL3.1, OpenCL1.1, 3 independent display: VGA or LVDS + DisplayPort + DisplayPort (from MIOe)

2x SATA III (600 MB/s), mSATA or full size miniPCIe

Mini PCIe 1x Full-size 1x Half-size, MIOe

Realtek ALC892 HD Line-in, Line out, Mic-in, Amplifier Optional via MIOe

8-bit GPIO

Supports iManager, SUSIAccess and Embedded Software APIs

Flexible design using integrated multiple I/O: MIOe to approach vertical applications & keep domain knowhow

Supports Intel® AMT8.0, USB 3.0, TPM1.2

AMI EFI 64Mbit BIOS

Operating temperature: 0 ~ 60°C (32 ~ 140°F)

Operating Humidity: 40°C @ 85% RH Non-Condensing

Storage Temperature: Storage temperature: -40~85°C

Storage Humidity: Relative humidity: 95% @ 60°C

Power Requirement: Single +12V DC ± 10% power input

Dimensions: 146 x 102 x 37mm

The manufacturer created the stackable architecture MI/O Extension Single Board Computer as a SBC design with flexible and multiple I/O support (hence the name MI/O) and united extended interface connector. The new MI/O Extension Single Board Computer: MIO-5290, based on the 3rd generation Intel ® Core™ processors with QM77 chipset, supports either 1600MHz DDR3 or low power 1333MHz DDR3L, USB 3.0, SATA III (600 MB/s), AMT 8.0, and can drive three independent displays (two DP combine with any other device). MIO-5290 provide not only the powerful computing capability but also a great graphic capacity platform. It’s suitable to aim various high level embedded applications. MIO-5290 adapt the newest solution from Intel with 22nm process and leading innovation: Tri-Gate Transistor architecture (Higher performing transistors and lower leakage). It can have up to ~15% CPU performance increase with lower or the same power consumption. DDR3-1600 and DDR3L-1333 for speedier communication between components at lower power. The fastest I/O, such as USB 3.0 or SATA port up to 6Gb/s is also available on MIO-5290. It will be the best choice to construct next intelligent system. MIO-5290 contains a latest generation graphics core (Intel® HD Graphics 4000) with DXVA (full AVC/VC1/MPEG2 Hardware Acceleration), OpenGL* 3.0 and DirectX 11 support. Up to ~50% 3D performance increase and 1.8X HD to HD transcode performance. It can help customer easily to implement high quality video or graphic application through MIO-5290 along with single and simple integrated solution. MIO-5290 also can support Dual Display by any combination interface from board. 3 independent displays also can be available through two display ports (one from MIO extension) with VGA or LVDS.

Specifications

SBC Type:

Single Board Computers 3.5 Inch

Processor

Processor:

Intel® Core™ i7 / i3 and Celeron + Intel QM77 PCH i7 3555LE 2.5 GHz / i7 3517UE 1.7 GHz / i3 3217UE 1.6GHz Dual-Core

Clock Speed:

2.5 GHz

Real Time Clock:

Memory

BIOS/ Bootloader:

AMI EFI 64Mbit

Primary I/O

GPIO:

8-bit GPIO

Disk Interface:

2x SATA III (600 MB/s) / mSATA or full size miniPCIe

Video Out:

VGA/HDMI/LVDS

Audio:

Realtek ALC892 HD Line-in / Line out / Mic-in / Amplifier Optional via MIOe

Ethernet:

2x 10/100/1000 Mbps

USB:

2x USB 2.0 & 2x USB 3.0 Ports

Serial Ports:

1x RS-232 & RS-232/422/485

Watchdog:

Secondary I/O

LPT Port:

Keypad:

PS/2:

Analog on

A/D:

D/A:

Dimensions

Dimensions:

5.7 × 4 in

Weight:

0.84 kg

Form Factor:

3.5 SBC

Dimensions Misc.:

146 x 102 mm (5.7" x 4"), same as 3.5" SBC

Power Requirements

Voltage:

12 V

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Upper Operating Humidity:

95%

Pricing

MIO-5290L-U5A1E
3.5" SBC, MIO-5290L i7-3555LE, 2xCOM, 2xUSB3, 4xUSB2, 2xGbE, Audio, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.
$1,281.00
Order:
0
Parent Product:

MIO-5290U-S4A1E
3.5" SBC, MIO-5290U4, 1047UE, 2xCOM, 2xUSB3, 4xUSB2, 2xGbE, Audio, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.
$562.00
Order:
0
Parent Product:

MIO-5290U-S6A1E
3.5" SBC, MIO-5290U6, i3-3217UE, 2xCOM, 2xUSB3, 4xUSB2, 2xGbE, Audio, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.
$978.00
Order:
0
Parent Product:

MIO-5290U-S7A1E
3.5" SBC, MIO-5290U7, i7-3517UE, 2xCOM, 2xUSB3, 4xUSB2, 2xGbE, Audio, VGA, HDMI/DP ** Portions of this Product are made in China: Pricing is subject to change, due to the current US-China Trade Tariff Charges. Please contact EMAC for detailed price quote.
$1,243.00
Order:
0
Parent Product:

Memory:
SKU: PER-RAM-00161
PER-RAM-00161
$30.00
Product State:
Testing
Variations:
4GB DDR3L 1.35V SODIMM
Status: Active
Call for Price:
SKU: PER-RAM-00165
PER-RAM-00165
$35.00
Product State:
Final

Variations:
2GB DDR3L 1.35V SODIMM (Industrial Temp -40 to 85C)
Status: Active
Call for Price:

Source URL: https://www.emacinc.com/content/mio-5290-35-sbc-1