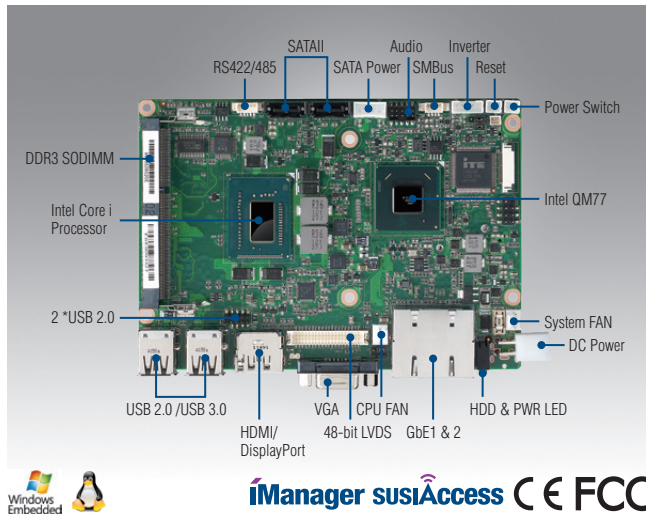


MIO-5290

Intel® Core™ i7 / i3, 3.5" MI/O-Compact SBC,
DDR3/DDR3L, VGA, DP/HDMI, 48-bit LVDS, 2GbE,
2 x Mini PCIe, mSATA, iManager, MIOe



iManager susiAccess CE FCC

Features

- Intel® Core™ i7, i3 and Celeron processors + Intel QM77 PCH, 1 x DDR3/DDR3L SO-DIMM support up to 8 GB
- DirectX11, OpenGL3.1, OpenCL1.1, 3 independent display: VGA or LVDS + DisplayPort + DisplayPort (from MIOe)
- Supports Intel® AMT8.0, USB 3.0, TPM1.2
- Flexible design using integrated multiple I/O: MIOe to approach vertical applications & keep domain knowhow
- 2 GbE support, HD Audio, Rich I/O interface with 2 COM, 2 SATA, SMBus, 8-bit GPIO, Half-size Mini PCIe, Full-size Mini PCIe & 2 USB 3.0
- Supports iManager, SUSIAccess and Embedded Software APIs

Software APIs:



Utilities:

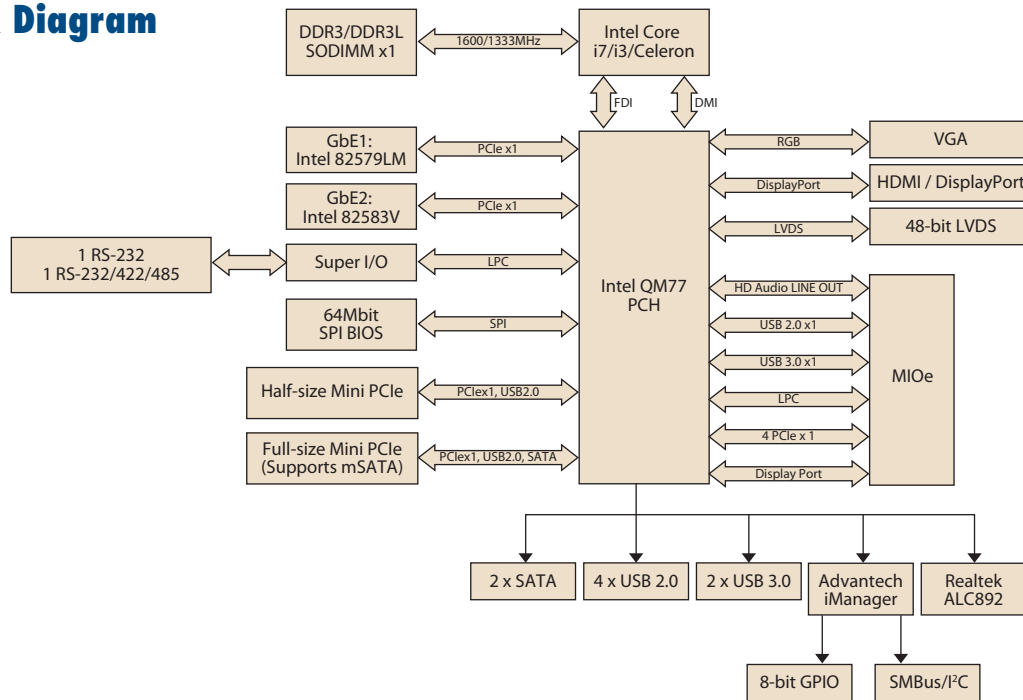


Specifications

Processor System	CPU	Celeron 1047UE	ULV Core i3 3217UE	ULV Core i7 3517UE	LV Core i7 3555LE
	Frequency	1.4GHz (Dual-Core)	1.6GHz (Dual-Core)	1.7GHz (Dual-Core)	2.5GHz (Dual-Core)
Memory	L3 Cache	2MB	3MB	4MB	4MB
	System Chipset	Intel QM77			
Display	BIOS	AMI EFI 64Mbit			
	Technology	DDR3 1600MHz, DDR3L 1333 MHz			
Ethernet	Max. Capacity	8 GB			
	Socket	1 x 204-pin SODIMM			
Audio	Controller	Intel HD Graphics 4000 / Intel HD Graphics (Celeron)			
	Graphic Engine	DirectX11, OpenGL 3.1, and OpenCL 1.1			
WatchDog Timer	VGA	Hardware decode acceleration: AVC/H.264, MPEG-2, VC-1			
	LVDS	Integrated 340.4MHz RAMDAC, Max resolution up to 2048 x 1536 at 75Hz			
Storage	LVDS	LVDS with 3.3V, 5V and 12V on LCD VDD power, 5V and 12V support on LVDS inverter			
	HDMI / DisplayPort*	Dual channel 24-bit LVDS, max resolution up to 2560 x 1600 at 60Hz			
Rear I/O	3 Independent Display	Supports HDMI 1.4 for HD Video playback			
	Speed	Max resolution up to 2560 x 1600 at 60Hz on DisplayPort, Max resolution up to 1920 x 1200 at 60Hz on HDMI			
Internal I/O	Controller	VGA + Displayport (coastline) + Displayport (MIOe) or LVDS + Displayport (coastline) + DisplayPort (MIOe)			
	Connector	10/100/1000Mbps			
Expansion	Controller	GbE1: Intel 82579LM, GbE2: Intel 82583V			
	Connector	2 RJ45 on Rear I/O			
Power	Chipset	Realtek ALC892, High Definition Audio (HD), Line-in, Line out, Mic-in			
	Amplifier	Optional via MIOe			
Physical Characteristics	WatchDog Timer	Output System reset, Programmable counter from 1 ~ 255 minutes/ seconds			
	Power Type	2, up to 6.0 Gb/s (600 MB/s)			
Environment	Power Supply Voltage	Supports either mSATA or full size miniPCIe, selected by BIOS, default support miniPCIe			
	Power Consumption (Typical)	MIO-5290U-S6A1E: w/DDR3: 1.615 A @ 12 V (19.38 W), w/DDR3L: 1.507 A @ 12 V (18.08 W)			
Physical Characteristics	Power Consumption (Max, test in HCT)	MIO-5290U-S7A1E: w/DDR3: 2.023 A @ 12 V (24.28 W), w/DDR3L: 1.965 A @ 12 V (23.5 W)			
	Power Management	MIO-5290L-U5A1E: w/DDR3: 2.356 A @ 12 V (28.27 W), w/DDR3L: 2.309 A @ 12 V (27.7 W)			
Physical Characteristics	Battery	MIO-5290U-S4A1E: w/DDR3: 1.18 A @ 12 V (14.16 W), w/DDR3L: 1.1 A @ 12 V (13.2 W)			
	Operational	MIO-5290U-S6A1E: w/DDR3: 2.024 A @ 12 V (24.29 W), w/DDR3L: 1.84 A @ 12 V (22.08 W)			
Physical Characteristics	Non-Operational	MIO-5290U-S7A1E: w/DDR3: 2.412 A @ 12 V (28.94 W), w/DDR3L: 2.3 A @ 12 V (27.6 W)			
	Dimensions (L x W)	MIO-5290L-U5A1E: w/DDR3: 2.896 A @ 12 V (34.75 W), w/DDR3L: 2.708 A @ 12 V (32.5 W)			
Physical Characteristics	Weight	MIO-5290U-S4A1E: w/DDR3: 1.68 A @ 12 V (20.16 W), w/DDR3L: 1.49 A @ 12 V (17.88 W)			
	Height	ACPI			
Physical Characteristics	Height	Lithium 3 V / 210 mAh			
	Height	0 ~ 60° C (32 ~ 140° F) (Operational humidity: 40° C @ 95% RH Non-Condensing)			
Physical Characteristics	Height	-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing			
	Height	146 x 102 mm (5.7" x 4"), same as 3.5"			
Physical Characteristics	Height	0.84 kg (1.72lb), weight of total package			
	Height	Top Side: 37 mm (MIO-5290U series), 47.7 mm (MIO-5290L series); Bottom Side: 9 mm; PCB: 1.6mm			

* In order to have optimize compatibility on HDMI, DisplayPort is not under best configuration. If any compatibility issue occur on DP, please help to contact with technical service.

Block Diagram



Ordering Information

Part No.	CPU	L3 Cache	LVDS	VGA	HDMI/DP	GbE	HD Audio	RS-232/422/485	RS-232	USB 3.0	USB 2.0	SATA	Half-size Mini PCIe	Full-size Mini PCIe ¹	MIOe	Power connector	Thermal Solution ²	Operation Temp.
MIO-5290U-S6A1E	Intel Core i3 ULV 1.6GHz 3217UE DC, 17W	3MB	48-bit	Yes	Yes	2	Yes	1	1	2	4	2	1	1	Yes	DC Jack	Active	0 ~ 60° C
MIO-5290U-S7A1E	Intel Core i7 ULV 1.7GHz 3517UE DC, 17W	4MB	48-bit	Yes	Yes	2	Yes	1	1	2	4	2	1	1	Yes	DC Jack	Active	0 ~ 60° C
MIO-5290L-U5A1E	Intel Core i7 LV 2.5GHz 3555LE DC, 25W	4MB	48-bit	Yes	Yes	2	Yes	1	1	2	4	2	1	1	Yes	2x2 pin	Active	0 ~ 60° C
MIO-5290U-S4A1E	Intel Celeron 1.40 GHz 1047UE DC, 17W	2MB	48-bit	Yes	Yes	2	Yes	1	1	2	4	2	1	1	Yes	2x2 pin	Active	0 ~ 60° C

¹ Full-size Mini PCIe supports mSATA

² Active = with fan

Packing List

Part No.	Description	Quantity
	MIO-5290 SBC	1
2006529000	Startup Manual	1
1700006291	M Cable SATA 7P/SATA 7P 30cm C=R 180/90	1
1700018785	SATA 35cm power cable	1
1700019435	COM RS-485 D-SUB 9P (M)/1*5P 1.25 25cm cable	1
1701200220	COM RS-232 Cable 2*10P-2.0/D-SUB 9P (M)*2 22CM	1
1700019584	Audio Cable 2*5P-2.0/JACK*3 20cm	1
9689000002	mini Jumper pack	1
1960057431N001	Cooler for MIO-5290L series only (Height: 47.7mm)	1
1960057432N001	Cooler for MIO-5290U series only (Height: 37mm)	1

Optional Accessories

Part No.	Description
1960058000N001	Heat spreader for MIO-5290
1700006291	SATA cable 7P/ 7P 30cm C=R 180/90
1703100260	Internal USB cable
1757003934	Adaptor 100-240V 60W 12V 5A W/O PFC

Embedded OS/API

Embedded OS/API	Part No.	Description
Windows Embedded Standard	2070011449	WES2009 MIO-5290 ENG
Windows Embedded Standard 7	2070011453/2070011452	WES7E 32/64bit MIO-5290 ENG/GER/JPN/CH
VxWorks		6.9.2
QNX		6.5
Linux		CentOS 6.3/Ubuntu 12.04
Software API		iManager 2.0

Rear I/O View



MIO-5290U-S6A1E
MIO-5290U-S7A1E



MIO-5290L-U5A1E
MIO-5290U-S4A1E

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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