

Embedded Platform Solutions

*Comprehensive Embedded SBC &
Rugged Computing Systems*



PERFECTRON

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About PERFECTRON

PERFECTRON focuses on providing ruggedized, -40~+85°C operation single board computers and powerful fanless computers for high-end automation, transportation, autonomous vehicles and graphic-demand applications.

Everything we do, we keep breaking the limits and challenging the status quo by offering latest embedded platform services to handle the toughest operating environments.

Nothing is impossible in PERFECTRON.



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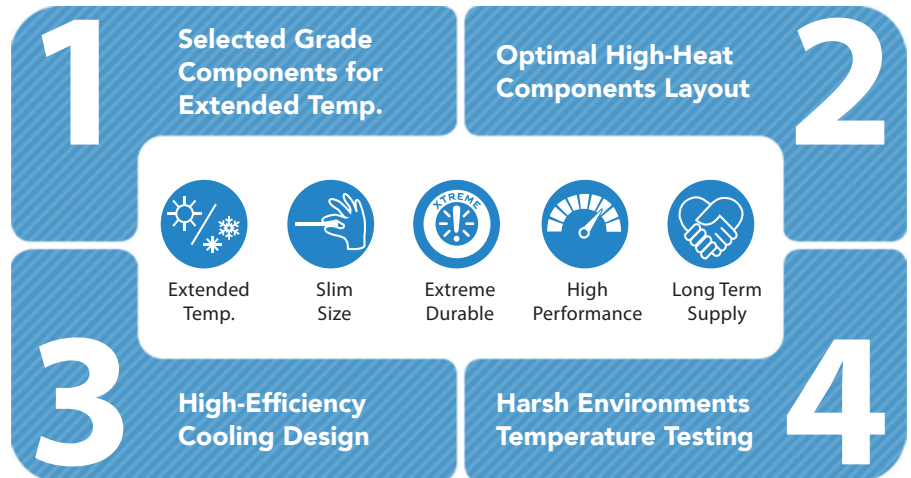
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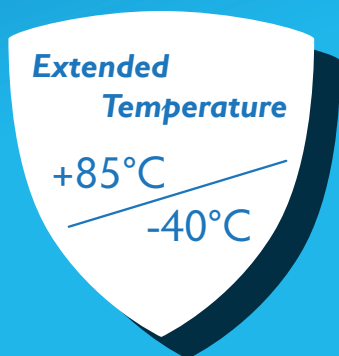
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Extended Temperature Principle

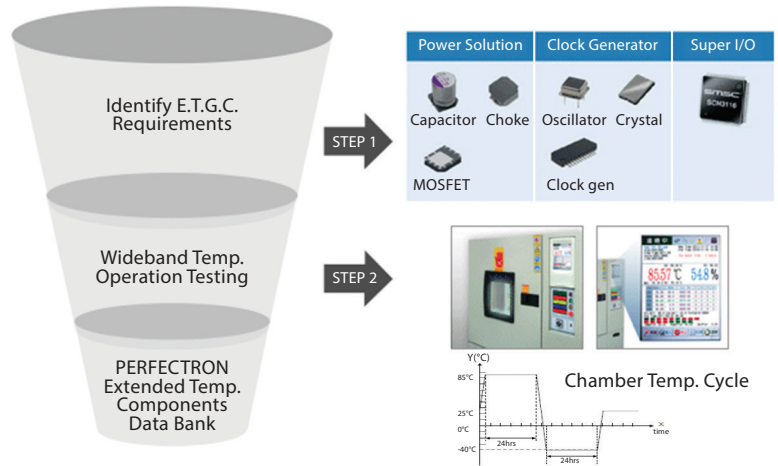
Industries across from outdoors to indoors have been employing a wide variety of applications that designed to withstand extreme conditions, temperatures, thermal shock, high humidity, electromagnetic disturbances, and low-temperature start-ups. Since these applications typically run in harsh environments, the reliability of systems has been challenged by the external factors. These external factors are the potential cost may occur while the highly demanded system fails that leads PERFECTRON to challenge the status quo of thermal management.



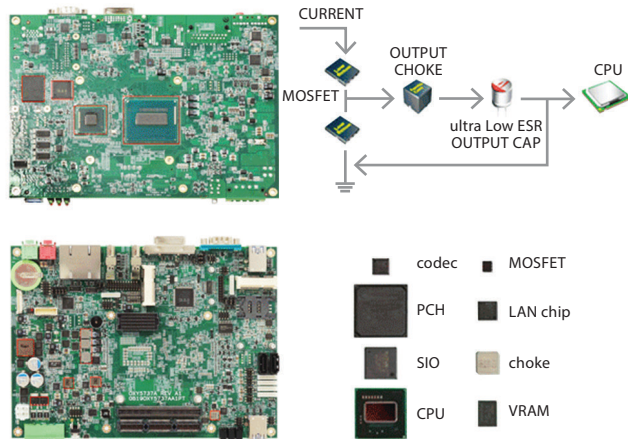
PERFECTRON has delivered quality thermal solutions to meet military standard by this technology know-how that we can proudly guarantee our products are capable of meeting the four principles in thermal management from using industrial grade components, optimizing high-heat-output components layout, constructing cooling design, and the extended temperature testing under full-speed performance these values have developed a strong foundation on extending products lifecycles.



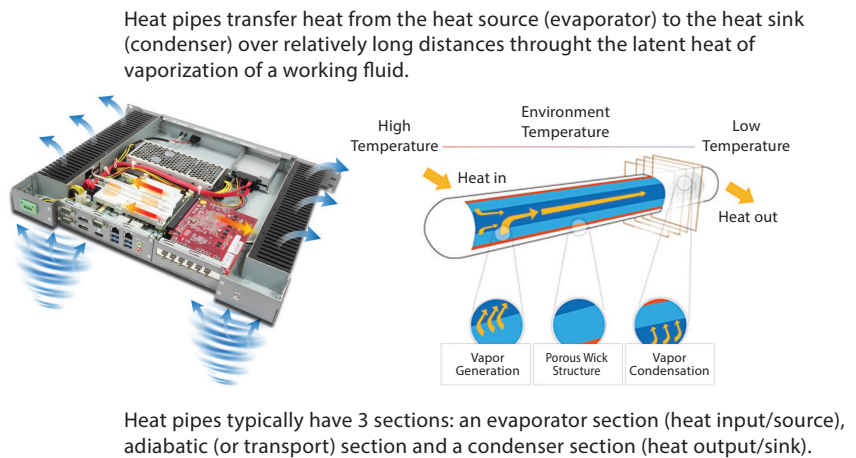
1. Design with Extended Temp. Grade Components



2. Power Circuit and Layout Optimization



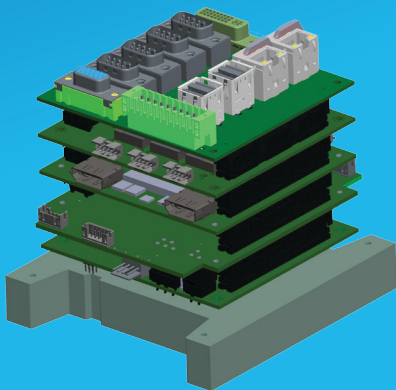
3. High Efficiency Copper Heat-Pipe



4. Wideband Extended Temperature Testing



Ruggedized Platform



The StackPC specification defines new approach to stackable systems design and development. The specification includes all valuable heritage of PC/104 standards along with the new features of StackPC connector.

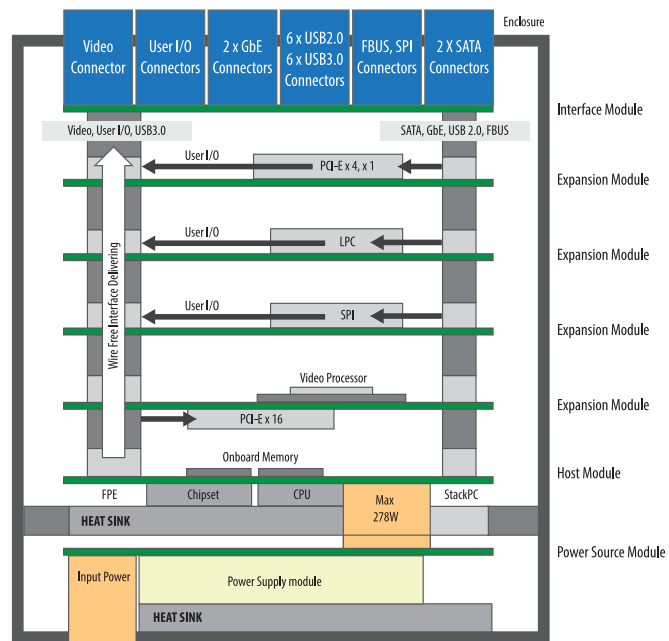
Compatibility with PCIe/104 Modules

- The dimension and pin of the StackPC connector is same as the PCIe/104 connector.
- BANK1 signal is same as PCIe/104 Type2.
- (PCIe x4) StackPC modules can be placed into PCIe/104 stacks on the TOP layer.
- Maximum compatibility with the most popular PCIe/104 modules.

Benefits of StackPC – Faster, More and Goal for Cable-less Design

The main competitive distinction of the StackPC connector is the combination of most popular low speed interfaces such as USB, COM, CAN, SPI, LPC and high speed SATA, Gigabit Ethernet and PCI-Express x1, x4 within one stack expansion connector.

- The same protection mechanism as in Type1/Type2
- Universal modules are fully compatible
- More features with FPE expansion up to PCIe x16
- Signal goes up only allows to minimize the number of cables connections inside the system enclosure.



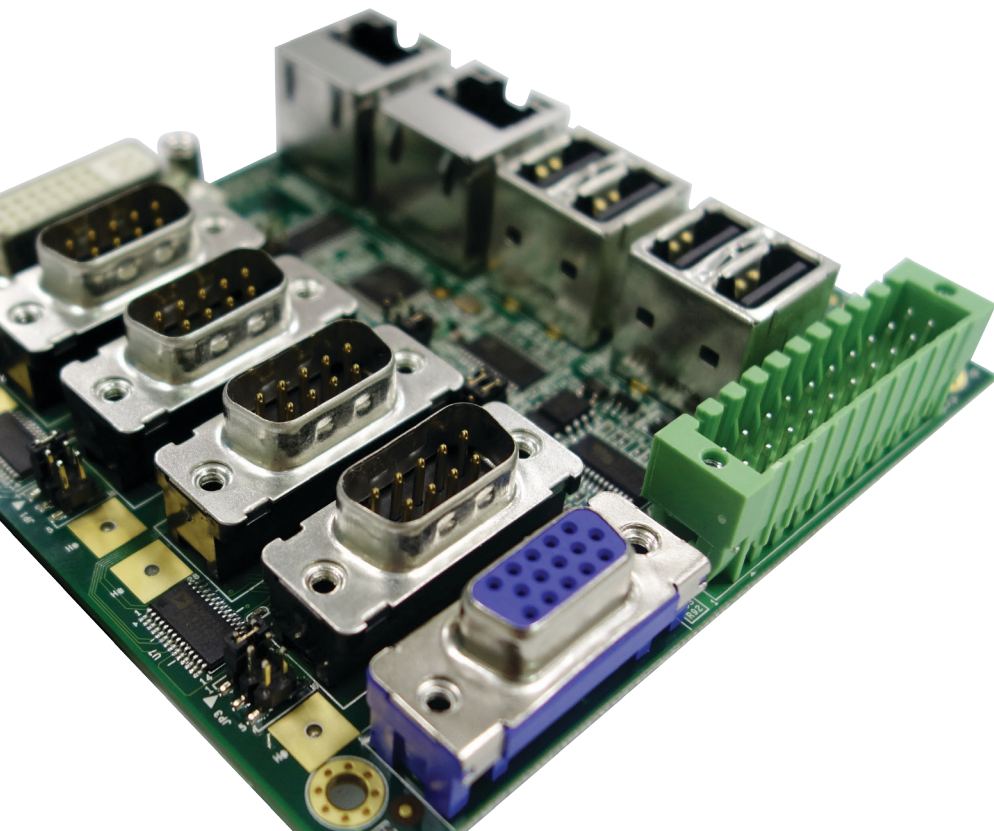
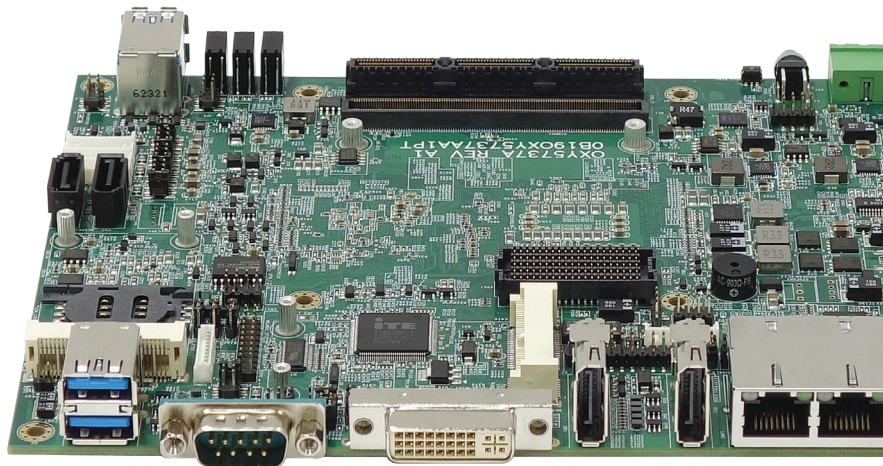


F1

Core i7 Military COTS Computer, Small Form Factor (SFF) w/ PCIe/104 Architecture. MIL-STD-810G, MIL-STD-1275/704/DO-160 Power supply, IP65, M12 connector, -40°C to 75°C.

OXY5737A

StackPC-FPE EBX board Intel® Haswell i7-4700EQ + QM87 PCH, XR-DIMM up to 8GB, onboard 64GB uSSD, 2 x miniPCIe, 2 x DP, DVI-I, LVDS, -40°C to 85°C.



SK509

StackPC I/O board for 2 x RJ45 LAN, 3 x RS232 with 5V/12V selectable, 1 x RS-232/422/485 ports, 2 x mini PCIe, 4 x USB 2.0, -40°C to 85°C.

CPU + GPU 19" Rackmount Fanless Solution



Targeting at applications that require multiple high-resolution displays or GPGPU parallel computing with Intel® Core™ processor, PERFECTRON's unbeatable 19" rackmount fanless servers provides Intel® desktop quad-core i7 integrate with graphic mainstream AMD E8860 that is best solution to conquer harsh environments including extended operating temp., shock, vibration and more.



With PERFECTRON's unique heat dissipation technique which incorporates copper heat pipes and patented designed heat sinks. The GPU integrated fanless servers can still perform outstanding computing result from cold -20°C up to extreme warm $+60^{\circ}\text{C}$.

Choose from 1U to 4U

To fit for various applications as autonomous vehicle, broadcasting car, building surveillance, control room and TV wall solutions, etc.. We offer ready systems from 1U to 4U's design also wide range DC or AC input to choose from. Powerful and maximum expansibility in such slim height indeed is the killer among 19" rackmount solutions.

ROC249A

1U Rack-mount Intel® Skylake i7
with AMD E8860 supports up to
9 independent display



PER335A

1.5U Rack-mount Intel®
Ivy Bridge i7 with CAN Bus

PER6760A

4U Rack-mount Intel® Ivy Bridge i7
with AMD E6760 supports up to
6 independent display



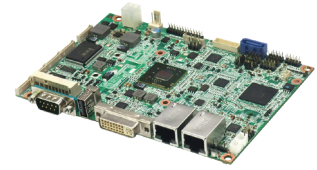
3.5" SBC

COMING SOON



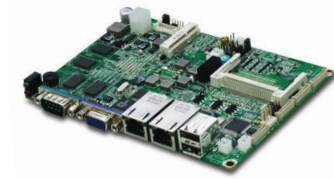
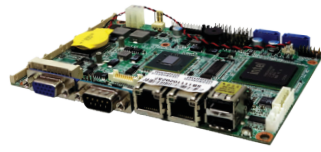
Model Name		OXY5361A	OXY5338A	OXY5335A OXY5336A
System	CPU Type	Intel® Kaby Lake-U SoC Core™ i7/i5/i3/ Celeron	Intel® Broadwell-U SoC Core™ i7/i5/i3/ Celeron	Intel® Ivy Bridge Core™ i7/i5/i3
	Chipset	SoC, integrated with CPU	SoC, integrated with CPU	Intel® QM77/HM76
	Memory Type	2 x DDR4 SO-DIMM up to 16GB	1 x DDR3L SO-DIMM up to 16GB	1 x DDR3 SO-DIMM up to 8GB
	BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	Mini PCIe	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA (half-size)	1 x mPCIe 1 x mPCIe/mSATA (half-size)	1 x mPCIe w/SIM slot 1 x mSATA
Display	Chipset	Intel® HD Graphics	Intel® HD Graphics 6000	Intel® HD Graphics 4000
	Display Type	DisplayPort, LVDS	HDMI, LVDS	VGA, LVDS, DVI-D
Audio	Codec	Realtek ALC887	Realtek ALC886	Realtek ALC887
Ethernet	Chipset	1 x Intel® i219-LM 1 x Intel® i210-IT	1 x Intel® i218-LM 1 x Intel® i211-AT	1 x Intel® 82579LM 1 x Intel® 82574L
External I/O	Display	2 x DisplayPort	2 x HDMI	1 x VGA, 1 x DVI-D
	Ethernet	2 x RJ45	2 x RJ45	2 x RJ45
	COM	N/A	N/A	1 x RS232/422/485
	USB	4 x USB3.0	2 x USB 3.0, 2 x USB 2.0	2 x USB 3.0
	Audio	N/A	N/A	N/A
Internal I/O	SATA	1 x SATA III	1 x SATA III	2 x SATA III
	COM	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	3 x RS232
	USB	2 x USB2.0	2 x USB 2.0	8 x USB 2.0
	DIO	8-bit GPIO	8-bit (4 in/4 out)	8-bit (4 in/4 out)
	Display	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS
	PS/2	N/A	N/A	1
	LPT	N/A	N/A	1
Mechanical and Environment	Power Type	9 ~ 36V DC-in	8 ~ 32V DC-in	12V DC-in
	Dimension	146 x 102 mm (5.7" x 4")	146 x 102 mm (5.7" x 4")	146 x 102 mm (5.7" x 4")
	Operating Temp.	- 40°C ~ +85°C	- 20°C ~ +70°C	- 40°C ~ +85°C

COMING SOON



Model Name		OXY5323A	OXY5322A	OXY5316 OXY5320A OXY5321A
System	CPU Type	Intel® Apollo Lake SoC	Intel® Bay Trail-I E3845 SoC	Intel® Cedarview N2800/N2600/D2550
	Chipset	SoC, integrated with CPU	SoC, integrated with CPU	Intel® NM10
	Memory Type	1 x DDR3L SO-DIMM up to 8GB	1 x DDR3L SO-DIMM up to 8 GB	1 x DDR3 SO-DIMM up to 4GB/2GB/4GB
	BIOS	AMI® UEFI BIOS	AMI® SPI BIOS	AMI® BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	Mini PCIe	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA (half-size)	1 x mPCIe 1 x mPCIe/mSATA (half-size)	1 x mPCIe
Display	Chipset	Intel® HD Graphics	Intel® HD Graphics	Intel® Graphic core
	Display Type	DisplayPort, LVDS	VGA, LVDS, HDMI	DVI-I, LVDS
Audio	Codec	Realtek ALC887	Realtek ALC886	Realtek ALC269
Ethernet	Chipset	1 x Intel® i219-LM 1 x Intel® i210-IT	2 x Intel® i210-IT	2 x Realtek RTL8111E
External I/O	Display	2 x DisplayPort	1 x VGA, 1 x HDMI	1 x DVI-I
	Ethernet	2 x RJ45	2 x RJ45	2 x RJ45
	COM	N/A	N/A	1 x RS232/422/485
	USB	4 x USB3.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 2.0
	Audio	N/A	N/A	N/A
Internal I/O	SATA	1 x SATA III	1 x SATA III	1 x SATA II
	COM	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232	4 x RS232
	USB	2 x USB2.0	1 x USB 2.0	6 x USB 2.0
	DIO	8-bit GPIO	8-bit GPIO	8-bit (4 in/4 out)
	Display	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS
	PS/2	N/A	N/A	1
	LPT	N/A	N/A	1
Mechanical and Environment	Power Type	9 ~ 36V DC-in	12V DC-in	12V DC-in
	Dimension	146 x 102 mm (5.7" x 4")	146 x 102 mm (5.7" x 4")	146 x 102 mm (5.7" x 4")
	Operating Temp.	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C

3.5" SBC



Model Name		OXY5313A OXY5315A	OXY5314A OXY5319A
System	CPU Type	Intel® Pineview D525/N455	Intel® Tunnel Creek E660T/E620T
	Chipset	Intel® ICH8M	Intel® EG20T
	Memory Type	1 x DDR3 SO-DIMM up to 4GB/2GB	DDR2 1GB/512MB Memory onboard
	BIOS	AMI® BIOS	AMI® BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	Mini PCIe	1 x mPCIe	1 x mPCIe
Display	Chipset	Intel® GMA3150 Graphic Core	Chrontel 7317B SDVO to VGA
	Display Type	VGA, LVDS	VGA, LVDS
Audio	Codec	Realtek ALC662	Realtek ALC886
Ethernet	Chipset	2 x Realtek RTL8111DL	2 x Intel® 82574IT
External I/O	Display	1 x VGA	1 x VGA
	Ethernet	2 x RJ45	2 x RJ45
	COM	1 x RS232/422/485	1 x RS232/422/485
	USB	2 x USB 2.0	2 x USB 2.0
	Audio	N/A	N/A
Internal I/O	SATA	2 x SATA II	1 x SATA II
	COM	7 x RS232	3 x RS232
	USB	6 x USB 2.0	N/A
	DIO	8-bit (4 in/4 out)	8-bit (4 in/4 out)
	Display	Dual Channel 18-bit LVDS	Single Channel 18/24-bit LVDS
	PS/2	N/A	N/A
	LPT	1	N/A
Mechanical and Environment	Power Type	12V DC-in	12V DC-in
	Dimension	146 x 102 mm (5.7" x 4")	146 x 102 mm (5.7" x 4")
	Operating Temp.	-40°C ~ +85°C	-40°C ~ +85°C

Industrial Mini-ITX Motherboards

COMING SOON



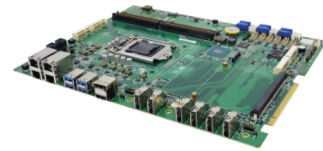
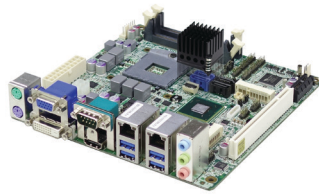
Model Name		INS8349A	INS8349B
System	CPU Type	LGA1151 Socket for 6th Gen. Intel®Core™ i7/i5/i3	LGA1151 Socket for 6th Gen. Intel®Core™ i7/i5/i3
	Chipset	Intel® Q170/H110	Intel® Q170/H110
	Memory Type	2 x DDR4 SO-DIMM up to 32GB	2 x DDR4 SO-DIMM up to 32GB
	BIOS	AMI® SPI BIOS	AMI® SPI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	PCIe x 16	1	1
	PCIe x 1	N/A	N/A
	Mini PCIe	1 x mPCIe w/SIM slot	1 x mPCIe w/SIM slot
	MXM	N/A	N/A
	PCI	N/A	N/A
	M.2	1 (B + M key for SSD supported)	1 (M key for SSD and PCIe4 supported)
Display	Chipset	Intel® HD Graphics 500 series	Intel® HD Graphics 500 series
	Display Type	DisplayPort++, HDMI, LVDS	DisplayPort++, HDMI
Audio	Codec	Realtek ALC886	Realtek ALC887
Ethernet	Chipset	1 x Intel® i219-LM 1 x Intel® i211-AT	1 x Intel® i219-LM 1 x Intel® i210-IT
External I/O	VGA	N/A	N/A
	DisplayPort	2 (Dual-Mode DisplayPort)	2 (Dual-Mode DisplayPort)
	DVI-D	N/A	N/A
	HDMI	1	1
	Ethernet	2 x RJ45	2 x RJ45
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	COM	1 x RS232/422/485 2 x RS232	1 x RS232/422/485
	USB	4 x USB3.0	4 x USB3.0
	PS/2	N/A	N/A
	LPT	N/A	N/A
	DC-In	N/A	N/A
Internal I/O	SATA	4 x SATA III	4 x SATA III
	COM	3 x RS232	3 x RS232
	USB	4 x USB 2.0	4 x USB 2.0
	DIO	8-bit GPIO	16-bit GPIO
	LVDS	Dual Channel 24-bit LVDS	N/A
	PS/2	N/A	N/A
	LPT	N/A	N/A
Mechanical and Environment	Power Type	12V DC-in	9 ~ 36V DC-in
	Dimension	170 x 170mm (6.7" x 6.7")	170 x 170mm (6.7" x 6.7")
	Operating Temp.	0°C ~ +60°C	-40°C ~ +85°C

Industrial Mini-ITX Motherboards



Model Name		INS8346B	INS8335A
System	CPU Type	LGA1155 Socket for Intel® Ivy Bridge Core™ i7/i5/i3	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3
	Chipset	Intel® Q77	Intel® QM77
	Memory Type	2 x DDR3 SO-DIMM up to 16GB	2 x DDR3 SO-DIMM up to 16GB
	BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	PCIe x 16	1	N/A
	PCIe x 1	N/A	1
	Mini PCIe	1 x mPCIe 1 x mSATA (half-size)	1 x mPCIe
	MXM	N/A	N/A
	PCI	N/A	1
	M.2	N/A	N/A
Display	Chipset	Intel® HD Graphics 4000	Intel® HD Graphics 4000
	Display Type	VGA, DVI-D, HDMI, LVDS	VGA, DVI-D, HDMI, LVDS
Audio	Codec	Realtek ALC892	Realtek ALC892
Ethernet	Chipset	1 x Intel® 82579LM 1 x Intel® 82574L	1 x Intel® 82579LM 1 x Intel® 82574L
External I/O	VGA	1	1
	DisplayPort	N/A	N/A
	DVI-D	1	1
	HDMI	1	1
	Ethernet	2 x RJ45	2 x RJ45
	Audio	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-in, 1 x Line-out, 1 x Mic-in
	COM	2 x RS232/422/485	1 x RS232/422/485
	USB	4 x USB 3.0	4 x USB 3.0
	PS/2	N/A	N/A
	LPT	N/A	N/A
DC-In	N/A	1	
Internal I/O	SATA	2 x SATA III 2 x SATA II	2 x SATA III 2 x SATA II 1 x Cfast
	COM	4 x RS232	2 x RS232/422/485 3 x RS232
	USB	4 x USB 2.0	4 x USB 2.0
	DIO	16-bit (8 in/8 out)	16-bit (8 in/8 out)
	LVDS	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS
	PS/2	1	1
	LPT	N/A	1
Mechanical and Environment	Power Type	ATX	9 ~ 24V DC-in
	Dimension	170 x 170mm (6.7" x 6.7")	170 x 170mm (6.7" x 6.7")
	Operating Temp.	-40°C ~ +85°C	-40°C ~ +85°C

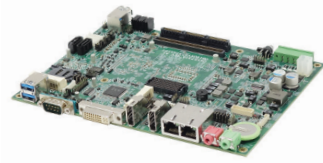
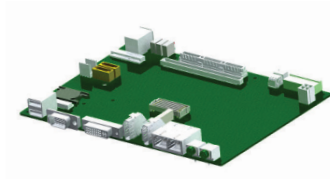
Industrial ATX Motherboards



Model Name		INS8335C	AB20
System	CPU Type	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	LGA1151 Socket for 6th Gen. Intel®Core™ i7/i5/i3/Xeon® E3 Processors
	Chipset	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	Intel® Q170/C236
	Memory Type	2 x DDR3 SO-DIMM up to 16GB	4 x DDR4 XR-DIMM up to 64 GB with ECC
	BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	PCIe x 16	N/A	1 (Golden finger supports 1 x PCIe4, 1 x PCIe8)
	PCIe x 1	1	N/A
	Mini PCIe	1 x mPCIe 1 x mPCIe/mSATA	2 x mPCIe (one w/SIM Card slot) 2 x mPCIe/mSATA
	MXM	N/A	1 (MXM 3.0/3.1)
	PCI	1	N/A
	M.2	N/A	N/A
Display	Chipset	Intel® HD Grapics 4000	Intel® HD Graphics 500 series
	Display Type	VGA, DVI-D, HDMI, LVDS	VGA, HDMI, DisplayPort
Audio	Codec	Realtek ALC892	Realtek ALC888S
Ethernet	Chipset	1 x Intel® 82579LM 1 x Intel® 82574L	1 x Intel® i219-LM 1 x Intel® i210-IT
External I/O	VGA	1	N/A
	DisplayPort	N/A	7 (6 by MXM module)
	DVI-D	1	N/A
	HDMI	1	1
	Ethernet	2 x RJ45	4 x RJ45
	Audio	1 x Line-in, 1 x Line-out, 1 x Mic-in	N/A
	COM	1 x RS232/422/485	N/A
	USB	4 x USB 3.0	4 x USB 3.0
	PS/2	1 x Keyboard, 1 x Mouse	N/A
	LPT	1	N/A
	DC-In	N/A	N/A
Internal I/O	SATA	2 x SATA III 2 x SATA II	6 x SATA III
	COM	2 x RS232/422/485 3 x RS232	2 x RS232/422/485 4 x RS232
	USB	4 x USB 2.0	2 x USB 3.0, 4 x USB 2.0
	DIO	16-bit (8 in/8 out)	16-bit (8 in/8 out)
	LVDS	Dual Channel 24-bit LVDS	N/A
	PS/2	1	N/A
	LPT	1	N/A
Mechanical and Environment	Power Type	ATX	12V DC-in
	Dimension	170 x 170mm (6.7" x 6.7")	305 x 244 mm (12" x 9.6")
	Operating Temp.	-40°C ~ +85°C	-40°C ~ +85°C

EBX/EPIC SBC

EBX SBC



Model Name		OXY5739A	OXY5737A
System	CPU Type	Intel® Skylake-H Core™ i7/i5/i3/Xeon® E3, BGA Type	Intel® Haswell Core™ i7/i5/i3, BGA Type
	Chipset	Intel® CM236	Intel® QM87
	Memory Type	2 x DDR4 XR-DIMM up to 32GB w/ECC	1 x DDR3/DDR3L XR-DIMM up to 8GB
	NAND Drive	MLC 64GB	MLC 64GB
	BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	StackPC (PCIe/104)	1 (4 x PCIe x1, 2 x USB 2.0, LPC, SMBus, 2 x SATA)	1 (4 x PCIe x1, 2 x USB 2.0, LPC, SMBus, 2 x SATA)
	FPE	1 (PCIe x16)	1 (PCIe x16)
	Mini PCIe	1 x mPCIe w/SIM slot	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA
	M.2 (NGFF)	1 (M key for SSD and PCIe x4 supported)	N/A
Display	Chipset	Intel® HD Graphics 500 Series	Intel® HD Graphics 4600
	Display Type	DisplayPort, DVI-D, LVDS	DisplayPort, DVI-D, LVDS
Audio	Codec	Realtek ALC887	Realtek ALC887
Ethernet	Chipset	1 x Intel® i219-LM 1 x Intel® i210-IT	1 x Intel® i218-LM 1 x Intel® i210-IT
External I/O	Display	2 x DisplayPort, 1 x DVI-D	2 x DisplayPort, 1 x DVI-I
	Ethernet	2 x RJ45	2 x RJ45
	COM	1 x RS232/422/485	1 x RS232/422/485
	USB	4 x USB 3.0	4 x USB 3.0
	Audio	1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in
	Power Button	1	1
Internal I/O	SATA	2 x SATA III	2 x SATA III
	COM	1 x RS232/422/485 2 x RS232	1 x RS232/422/485 4 x RS232
	USB	4 x USB2.0	2 x USB 2.0
	DIO	8-bit (6in/2out, w/Isolation 4KV)	16-bit GPIO
	Display	Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS
	Audio	N/A	N/A
Mechanical and Environment	Power Type	12V DC-in	9 ~ 36V DC-in
	Dimension	203 x 146 mm (8" x 5.7")	203 x 146mm (8" x 5.7")
	Operating Temp.	- 40°C ~ +85°C	- 40°C ~ +85°C

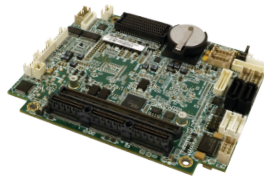
EPIC SBC



Model Name		OXY5638B	OXY5635A	OXY5622A
System	CPU Type	Intel® Broadwell-U Core™ i7/i5/i3 BGA Type	Intel® Ivy Bridge Core™ i7/i5/i3, BGA type	Intel® Bay Trail-I Atom™ E3845/J1900, BGA Type
	Chipset	SoC, integrated with CPU	Intel® QM77	SoC, integrated with CPU
	Memory Type	2 x DDR3L XR-DIMM up to 16 GB	1 x DDR3 SO-DIMM up to 8GB	Onboard MIP 8GB
	NAND Drive	MLC 64GB	N/A	MLC 32GB
	BIOS	AMI®UEFI BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	StackPC (PCIe/104)	1 (4 x PCIe x1, LPC, SMBus)	N/A	N/A
	FPE	N/A	N/A	N/A
	Mini PCIe	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA w/SIM slot	1 x mPCIe w/SIM slot 1 x mPCIe	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA
	M.2 (NGFF)	N/A	N/A	N/A
Display	Chipset	Intel® HD Graphics 6000/5500	Intel® HD Grapics 4000	Intel® HD Graphics
	Display Type	DisplayPort, LVDS	VGA, LVDS, DVI-D	VGA, DisplayPort, LVDS
Audio	Codec	Realtek ALC888S	Realtek ALC887	Realtek ALC887
Ethernet	Chipset	1 x Intel® i218-LM 1 x Intel® i210-IT	1 x Intel® 82579LM 1 x Intel® 82574L	2 x Intel® i210-IT
External I/O	Display	N/A	N/A	2 x DisplayPort
	Ethernet	N/A	N/A	2 x RJ45
	COM	N/A	N/A	N/A
	USB	N/A	N/A	1 x USB 3.0, 2 x USB 2.0
	Audio	N/A	N/A	1 x Line-out, 1 x Mic-in
	Power Button	N/A	N/A	1
Internal I/O	SATA	2 x SATA III	2 x SATA III 2 x SATA II	2 x SATA III
	COM	1 x RS232/422/485 4 x RS232	1 x RS232/422/485 3 x RS232	2 x RS232/422/485 2 x RS232
	USB	2 x USB 3.0, 4 x USB 2.0	8 x USB 2.0	2 x USB 2.0
	DIO	8-bit (4 in/4 out)	8-bit (4 in/4 out)	16-bit (8 in/8 out)
	Display	Dual Channel 24-bit LVDS	1 x VGA, 1 x DVI-D 1 x Dual Channel 24-bit LVDS	Dual Channel 24-bit LVDS
	Audio	1 x Line-in, 1 x Line-out, 1 x Mic-in	1 x Line-out, 1 x Mic-in	N/A
Mechanical and Environment	Power Type	12V DC-in	12V DC-in	9 ~ 36V DC-in
	Dimension	180 x 115 mm (7.1" x 4.5")	180 x 115 mm (7.1" x 4.5")	165 x 115mm (6.5" x 4.5")
	Operating Temp.	- 40°C ~ +85°C	- 40°C ~ +85°C	- 40°C ~ +85°C

PCIe/104 (StackPC) & PC/104+

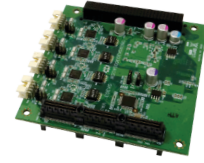
PCIe/104 (StackPC) CPU Module



Model Name		OXY5535B	OXY5413A OXY5415A
System	CPU Type	Intel® Ivy Bridge Core™ i7/i3/Celeron, BGA type	Intel® Pineview D525/N455
	Chipset	Intel® QM77	Intel® ICH8M
	Memory Type	1 x DDR3 XR-DIMM up to 8GB w/ECC	1 x DDR2 SO-DIMM up to 4GB/2GB
	NAND Drive	MLC 32GB	N/A
	BIOS	AMI® UEFI BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable	1-255 sec. or 1-255 min. software programmable
Expansion Slot	PCIe/104 (StackPC)	1 (2 x PCIe x1, 1 x PCIe x4, 6 x USB, 2 x SATA, 2 x GbE LAN, 1 x LPC, 2 x SPI, 1 x SMBUS, 2 x RS485 (FBUS))	N/A
	FPE	PClex16	N/A
	PCI-104	N/A	1
	PC/104	N/A	1
Display	Chipset	Intel® HD Graphics 4000	Intel® GMA3150 Graphic Core
	Display Type	LVDS, VGA	LVDS, VGA
Audio	Codec	Realtek ALC887	Realtek ALC269
Ethernet	Chipset	1 x Intel® 82579LM 1 x Intel® 82574L	2 x Realtek RTL8111DL
Internal I/O	VGA	1	1
	DVI-D	1	N/A
	SATA	2 x SATA III	1 x SATA II
	SSD	N/A	1 x CFast Socket
	COM	2 x RS422/485 2 x RS232	1 x RS232/422/485 1 x RS232
	DIO	8-bit (4 in/4 out with isolation)	N/A
	USB	2 x USB 2.0	4 x USB 2.0
	LVDS	Dual Channel 24-bit LVDS	Single Channel 18-bit LVDS
	Audio	1	N/A
	PS/2	1	N/A
Mechanical and Environment	Power Type	ATX	5V DC-in
	Dimension	96 x 121mm (3.78" x 4.76")	96 x 115mm (3.78" x 4.76")
	Operating Temp.	-40°C ~ +85°C	-20°C ~ +70°C

PCIe/104 (StackPC) Graphic Module

PCIe/104 to PCI-104 Adapter

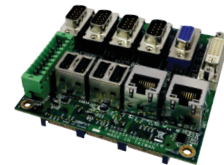


Model Name	SK220	SK210-GT730M	SK303
Function	MXM Carrier supports MXM 3.0/3.1 graphic card	Nvidia GTX730M DDR3 1GB RAM for 4 independent DisplayPort	PCIe/104 to PCI-104 adapter w/ 4 Isolated COM
PCIe/104 (StackPC)	PCIe x1/x4	PCIe x1/x4	PCIe x1, LPC
FPE	PCIe x8/x16	PCIe x8/x16	N/A
Mini PCIe	N/A	N/A	N/A
Output/Connector	6 x DisplayPort (pin-header) 1 x VGA (pin-header)	4 x DisplayPort 1 x VGA (pin-header)	4 x Isolated RS232/422/485 1 x PCI-104 connector
Operating temp.	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C

PCIe/104 (StackPC) Storage & mPCIe Module

PCIe/104 (StackPC) Ethernet Module

PCIe/104 (StackPC) Interface Module



Model Name	SK401	SK506R/P	SK509
Function	Storage Module & mPCIe Module	Extra Quad Ethernet Module by Intel® i350-AM4	I/O Module
PCIe/104 (StackPC)	1 x PCIe x1, 2 x SATA	PCIex1/x4	4 x PCIex1, 4 x USB, SMBus, LPC
FPE	N/A	N/A	N/A
Mini PCIe	2	N/A	2
Output/Connector	1 x 2.5" SSD 2 x mSATA	SK506R: 6 x GbE LAN by RJ45 SK506P: 6 x GbE LAN by Pin header	4 x USB 2.0, 4 x COM, 2 x LAN, 1 x DVI, 1 x VGA, 1 x DIO
Operating temp.	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C

PCIe/104 (StackPC) Carrier Board



Model Name	SK507
Function	StackPC-FPE Carrier Module
PCIe/104 (StackPC)	4 x PCIex1, 6 x USB, 2 x LAN, 2 x SATA, FBUS
FPE	PCIex8, DisplayPort, 2 x USB3.0
Expansion Slot	1 x PCIex8, 2 mPCIe w/SIM slot
Output/Connector	1 x VGA, 1 x DP 4 x USB3.0 4 x GbE 2 x RS485 1 x SATA, 1 x CFast
Power Type	9V ~ 24V DC-in
Dimension	115 x 165mm
Operating temp.	-40°C ~ +85°C

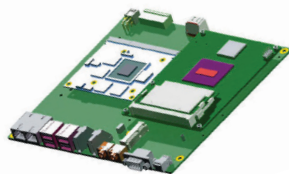
COM Express

COM Express Type 6



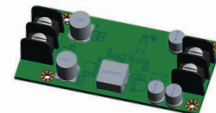
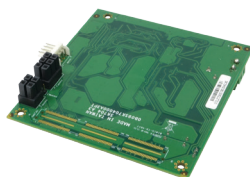
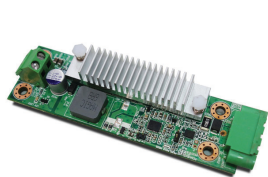
Model Name		OXY5135B
System	CPU Type	Intel® Ivy Bridge Core i7/i5/i3, BGA type
	Chipset	Intel® QM77
	Memory Type	Dual Channel DDR3 4GB onboard
	BIOS	AMI® UEFI BIOS
	Watchdog	1-255 sec. or 1-255 min. software programmable
Expansion Busses	PCIe x 16	1
	PCIe	7
Display	Chipset	Intel® HD Graphics 4000
	LVDS	Dual Channel 24bit LVDS
	Display Type	Three DDI ports support HDMI/ DP/ SDVO/ DVI
Audio	Codec	Intel® HD Audio
I/O Interface	SATA	2 x SATAIII 2 x SATAII
	USB	4 x USB 3.0 8 x USB 2.0
	LPC bus	1
	SMBus	1
	I ² C	1
Mechanical and Environment	Power Type	AT mode (12V) ATX mode (12V & 5Vsb)
	Dimension	125 x 95 mm (4.9" x 3.7")
	Operating Temp.	-20°C ~ +70°C

Carrier Board for Com Express Type 6



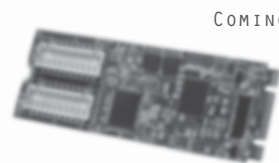
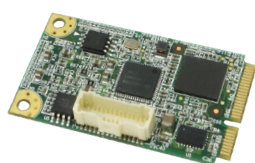
Model Name	SK513	SK505
Function	COM Express® Type 6 Carrier Board	COM Express® Type 6 Carrier Board
CPU Module Type	Support COM Express Basic, Compact and Mini module	Supports COM Express Basic, Compact and Mini module
Display	Supports three DDI with DisplayPort/VGA output	Supports three DDI with HDMI/DVI DisplayPort output
Expansion	1 x PCIe/104(StackPC), 1 x MXM, 1 x M.2 1 x mPCIe w/SIM slot 1 x mPCIe/mSATA (half-size)	1 x PCIe x16, 3 x PCIe x1, 1 x mPCIe
I/O & Storage	4 x USB 3.0, 2 x DP, 2 x LAN, 1 x COM 1 x MicroSD, 2 x SATA	4 x USB 3.0, 1 x DP, 1 x HDMI, 1 x VGA, 1 x DVI, 1 x eSATA, 1 x LAN, 1 x COM, 1 x PS/2 1 x CF card, 2 x SATA
Power Type	9V ~ 36V DC-in	ATX (24-pin)
Dimension	195 x 185 mm (7.68" x 7.28")	305 x 244 mm (12" x 9.6")
Operating temp.	-40°C ~ +85°C	-40°C ~ +85°C

Power Converter Modules



Model Name	SK701	SK704	SK706A: EMI Filter SK706B: DC-DC Converter	SK708
Certificates	CE/FCC	CE/FCC	VICOR Power for MIL-STD-461E MIL-STD-704A/E/F MIL-STD-1275A/B/D DO-160	CE/FCC
Input Voltage	9 ~ 36V	9 ~ 36V	16.5 ~ 50V	9 ~ 36V
Output	60W, +12V @ 5A	105W Max output power +3.3V@3A (10W Max.) +5V@6A (30W Max.) +5V_SB@1A (5W Max.) +12V@4-5A (50-60W Max.)	1 set- 107W, +12V @ 8.9A 2 sets- 177W, +12V @ 14.75A	150W, +12V @ 12.5A
Operation Temperature	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C	-40°C ~ +85°C
Dimension	100 x 30 mm (3.9" x 1.2")	95 x 90 mm (3.7" x 3.5")	SK706A: 55 x 55 mm (2.2" x 2.2") SK706B: 65 x 130 mm (2.6" x 5.1")	35 x 90 mm (1.4" x 3.5")

GbE Ethernet Module



COMING SOON

Model Name	MT321	MT322
Function	Mini PCIe Dual Gigabit Ethernet Network Card	M.2 Quad Gigabit Ethernet Network Card
Interface	Mini PCI Express	M.2 (2280)
Chipset ID	Intel® i210-IT	Intel® i210-IT
Transfer Rate	10/100/1000 Mbps	10/100/1000 Mbps
Compliance	IEEE802.3 Ethernet interface for 1000 Base-T, 100Base-TX, and 10Base-T applications (802.3, 802.3u, 802.3ab)	IEEE802.3 Ethernet interface for 1000 Base-T, 100Base-TX, and 10Base-T applications (802.3, 802.3u, 802.3ab)
Dimension	30 x 52 mm (W x L)	22 x 80 mm (W x L)
Operating temperature	-40°C ~ +85°C	

Type of Connector



Model Name	MT321R	MT321M	MT321M20
Connector	2 x RJ45	2 x M12	2 x M20
Operating temperature	-40°C ~ +85°C		

PCIe x16 to 4 mPCIe Expansion



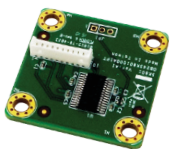
Model Name	SK306
Function	PCIe x16 to 4 mPCIe Expansion
Interface	PCIe x16
Output	4 mPCIe w/SIM card slot
Operating temperature	-40°C to +85°C

Dual Isolation RS422/485



Model Name	SK508
Function	Dual Isolation RS422/485
Chipset ID	EXAR SP339E
Isolation Hi-pot TEST	DC 7.5Kv AC 5.9Kv
Signal Converter	RS232 to RS422/485
Operating temperature	-40°C ~ +85°C

Trusted Platform Module



Model Name	SK801
Function	Trusted Platform Module
Interface	Low Pin Count (LPC)
Chipset ID	Infineon SLB9660 XT 1.2
Power	V = 3.3±0.3V I(Latchup immunity) = 100mA (EIA/JESD78) I = 25mA (Max)
Certification Level	TCG TPM 1.2 Rev. 116 TCG and Common Criteria certified with EAL4+
Dimension	32 x 32 mm (1.3"x1.3")
Operating temperature	-40°C ~ +85°C

19" Rackmount

19" rackmount 1U



Model Name		ROC249A	ROC235A
System	CPU Type	LGA1151 for Intel® Skylake-S Core™ i7/i5/i3	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3
	Chipset	Intel® Q170	Intel® QM77
	GPU	AMD E8860 (Optional)	N/A
	Memory Type	2 x DDR4 SO-DIMM up to 32 GB	2 x DDR3 SO-DIMM up to 16 GB
	Storage Device	2 x 2.5" HDD/SSD 1 x M.2	2 x 2.5" HDD/SSD
	Expansion Slot	1 x mPCIe w/SIM slot	2 x PCI 1 x mPCIe
Front I/O	Power Button	1	1
	Power LED	1	1
	HDD LED	1	1
	USB	2 x USB 2.0	2 x USB 2.0
	COM	N/A	N/A
	2.5" HDD/SSD Tray	2	N/A
Rear I/O	Display	2 x DisplayPort 1 x HDMI 6 x Mini DisplayPort (w/AMD E8860)	1 x VGA 1 x DVI-D 1 x HDM
	Ethernet	2 x RJ45	2 x RJ45
	COM	1 x RS232/422/485 2 x RS232	1 x RS232/422/485
	USB	4 x USB 3.0	4 x USB 3.0
	Audio	Mic-in, Line-out	Mic-in, Line-out
	Antenna	N/A	N/A
Mechanical and Environment	Power Type	16 ~ 32V DC-in	9 ~ 24V DC-in
	Dimension (W x H x D)	440 x 44 x 400 mm (17.3" x 1.7" x 15.7")	440 x 44 x 380 mm (17.3" x 1.7" x 15")
	Operating Temp.	-20°C ~ +60°C	-40°C ~ +70°C

19" rackmount 1U



Model Name		ROC235B	ROC236A
System	CPU Type	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	Intel® Ivy Bridge Core™ i7/i5/i3, BGA type
	Chipset	Intel® QM77	Intel® HM76
	GPU	N/A	N/A
	Memory Type	2 x DDR3 SO-DIMM up to 16 GB	1 x DDR3 SO-DIMM up to 8 GB
	Storage Device	2 x 2.5" HDD/SSD	2 x 2.5" HDD/SSD
	Expansion Slot	2 x PCI 1 x mPCIe	1 x mPCIe
Front I/O	Power Button	1	1
	Power LED	1	1
	HDD LED	1	1
	USB	2 x USB 2.0	2 x USB 2.0
	COM	N/A	N/A
	2.5" HDD/SSD Tray	2	N/A
Rear I/O	Display	1 x VGA 1 x DVI-D 1 x HDMI	1 x VGA
	Ethernet	2 x RJ45	2 x RJ45
	COM	1 x RS232/422/485	1 x RS232/422/485
	USB	4 x USB 3.0	2 x USB 3.0, 4 x USB 2.0
	Audio	Mic-in, Line-out	N/A
	Antenna	N/A	N/A
Mechanical and Environment	Power Type	100 ~ 240V AC-in	9 ~ 36V DC-in
	Dimension (W x H x D)	440 x 44 x 380 mm (17.3" x 1.7" x 15")	440 x 44 x 287 mm (17.3" x 1.7" x 11.3")
	Operating Temp.	-20°C ~ +60°C	-40°C ~ +70°C

19" Rackmount

19" rackmount 1.5U



Model Name		PER335A
System	CPU Type	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3
	Chipset	Intel® QM77
	Memory Type	2 x DDR3 SO-DIMM up to 16 GB
	Storage Device	2 x 2.5" HDD/SSD
	Expansion Slot	1 x mPCIe
Front I/O	Power Button	1
	Power LED	N/A
	HDD LED	1
	2.5" HDD/SSD Tray	1
	Display	N/A
	Ethernet	N/A
	USB	4 x USB 2.0
	COM	1 x RS232/422/485 3 x RS232
Rear I/O	Display	1 x VGA 1 x DVI-D 1 x HDMI
	Ethernet	2 x RJ45
	USB	4 x USB 3.0
	COM	1x RS232/422/485
	DIO	N/A
	2.5" HDD/SSD Tray	N/A
	Audio	Mic-in, Line-out, Line-in
	Antenna	Reserved two antenna holes
Mechanical and Environment	Power Type	9 ~ 24V DC-in
	Dimension (W x H x D)	370 x 77 x 240 mm (14.6" x 3" x 9.4")
	Operating Temp.	-40°C ~ +70°C

Automation Core i7 Computer



Model Name		CPT10	CPT10M
System	CPU Type	Intel® Broadwell-U Core™ i7/i5/i3/Celeron onboard	Intel® Broadwell-U Core™ i7/i5/i3/Celeron onboard
	Chipset	SoC, integrated with CPU	SoC, integrated with CPU
	Memory Type	1 x DDR3L XR-DIMM up to 8 GB	2 x DDR3L XR-DIMM up to 16 GB
	Storage Device	1 x 2.5" HDD/SSD 1 x mSATA	2 x 2.5" HDD/SSD 1 x mSATA
	Expansion Slot	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA w/SIM slot	1 x mPCIe w/SIM slot 1 x mPCIe/mSATA w/SIM slot
Front I/O	Power Button	1	1
	Power LED	N/A	N/A
	HDD LED	1	1
	2.5" HDD/SSD Tray	N/A	N/A
	Display	N/A	2 x DisplayPort
	Ethernet	2 x RJ45	2 x RJ45, 2 x M12
	USB	2 x USB 3.0	2 x USB 3.0 2 x USB 2.0
	COM	N/A	2 x RS422/485 (Isolated)
Rear I/O	Display	2 x DisplayPort	N/A
	Ethernet	N/A	2 x M12
	USB	N/A	N/A
	COM	1 x RS232/422/485 1 x RS232	1 x RS232/422/485 1 x RS232
	DIO	N/A	8-bit
	2.5" HDD/SSD Tray	N/A	2
	Audio	N/A	N/A
	Antenna	Reserved two antenna holes	Reserved two antenna holes
Mechanical and Environment	Power Type	9 ~ 36V DC-in	9 ~ 36V DC-in
	Dimension (W x H x D)	232 x 69 x 143 mm (9.2" x 2.7" x 5.6")	310 x 98 x 200 mm (12.2" x 3.9" x 7.9")
	Operating Temp.	-40°C ~ +70°C	-40°C ~ +70°C

Automation Core i7 Computer



Model Name		ROC335B	PER535A	PER6760A
System	CPU Type	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3
	Chipset	Intel® QM77	Intel® QM77	Intel® QM77
	Memory Type	2 x DDR3 SO-DIMM up to 16 GB	2 x DDR3 SO-DIMM up to 16 GB	2 x DDR3 SO-DIMM up to 16 GB
	Storage Device	1 x 2.5" HDD/SSD 1 x CF Card socket	2 x 2.5" HDD/SSD	2 x 2.5" HDD/SSD
	Expansion Slot	1 x mPCIe	1 x mPCIe 1 x PCI 1 x PCIe x1	1 x mPCIe 1 x PCI
Front I/O	Power Button	1	1	1
	Power LED	N/A	1	1
	HDD LED	N/A	1	1
	2.5" HDD/SSD Tray	2	N/A	N/A
	Display	N/A	N/A	N/A
	Ethernet	N/A	N/A	N/A
	USB	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0
	COM	2 x RS232/422/485 2 x RS232	1 x RS232/422/485 3 x RS232	1 x RS232/422/485 3 x RS232
Rear I/O	Display	1 x VGA 1 x DVI-I 1 x HDMI	1 x VGA 1 x DVI-I 1 x HDMI	1 x VGA 1 x DVI-I 1 x HDMI 4 x DisplayPort (w/AMD E6760)
	Ethernet	2 x RJ45	2 x RJ45	2 x RJ45
	USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
	COM	1 x RS232/422/485	1x RS232/422/485	1x RS232/422/485
	DIO	N/A	N/A	N/A
	2.5" HDD/SSD Tray	N/A	N/A	N/A
	Audio	Mic-in, Line-out, Line-in	Mic-in, Line-out, Line-in	Mic-in, Line-out, Line-in
	Antenna	Reserved two antenna holes	Reserved two antenna holes	Reserved two antenna holes
Mechanical and Environment	Power Type	9 ~ 24V DC-in	9 ~ 24V DC-in	9 ~ 24V DC-in
	Dimension (W x H x D)	237 x 88 x 293 mm (9.3" x 3.4" x 11.5")	370 x 122 x 246 mm (14.6" x 4.8" x 9.7")	370 x 166 x 246 mm (14.6" x 6.5" x 9.7")
	Operating Temp.	ET: -20°C ~ +60°C UT: -40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C

Touch Panel Computer & Display

Touch Panel Computer

Touch Display



Model Name		LIF1521	LIF1535	FAC21A
LCD Display	Screen Size	15.0"	15.0"	21.5"
	Resolution	XGA (1024 x 768)	XGA (1024 x 768)	Full HD (1920 x 1080)
	Contrast Ratio	700:1 (Typ.)	700:1 (Typ.)	3000:1 (Typ.)
	Brightness	350 cd/m ²	350 cd/m ²	250 cd/m ²
	Viewing Angle v/h	160°/140°	160°/140°	178°/178°
	Touch Type	5-wire resistive touch	5-wire resistive touch	5-wire resistive touch
System	CPU Type	Intel® Atom™ D2550 onboard	PGA988 for Intel® Ivy Bridge Core™ i7/i5/i3	N/A
	Chipset	Intel® NM10	Intel® QM77	N/A
	Memory Type	2 x DDR3 SO-DIMM up to 4 GB	2 x DDR3 SO-DIMM up to 16 GB	N/A
	Storage Type	1 x mSATA	1 x 2.5" SSD/HDD	N/A
	Expansion Slot	N/A	1 x mPCIe	N/A
	Display Type	VGA, DVI	VGA, DVI, HDMI	VGA, DVI-D
	External I/O	2 x COM 4 x USB 2.0 2 x LAN Mic-In, Line-out	2 x COM 4 x USB 2.0 2 x LAN Mic-In, Line-out	USB B Type connector (for touch) Audio Jack
	Internal I/O	1 x USB (with cover)	1 x USB (with cover)	N/A
	Power Type	9 ~ 24V DC-in/ 90 ~ 240V AC-in	9 ~ 24V DC-in/ 90 ~ 240V AC-in	12V DC-in
	Dimension	400 x 82 x 325 mm (15.7" x 3.2" x 12.8")	400 x 104 x 325mm (15.7" x 4.1" x 12.8")	525 x 55 x 320 mm (20.7" x 2.2" x 12.6")
Operating Temp.	-30°C ~ +60°C	-30°C ~ +60°C	5°C ~ 40°C	

STACKRACK



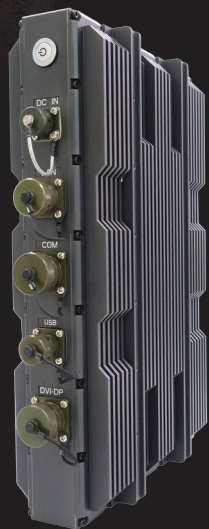
REAL RUGGED, NO COMPROMISE



ROC420A

19" 2U Fanless Rackmount Server powered by Intel® 6th Gen. Skylake-S Core™ i7-6700 w/ Q170

- » Build in Nvidia GTX980M
- » 64GB DDR4 RAM
- » 2x 10GbE LAN, 4x 1GbE LAN
- » Up to 8 Displays output
- » Operating temp. -20 ~ +60°C



SR710

MIL-STD IP65 Rugged System powered by Intel® 4th Gen. Haswell Core™ i7-4700EQ w/QM87

- » Build in Nvidia GT730M/GTX950M
- » Amphenol MIL-DTL-38999 Connectors
- » Dual LAN Ports
- » Operating Temp. -40 ~ +75°C



SKY15

15" MIL-STD Rugged Mission Display

- » MIL-STD 461F/1275, DO-160 Ready
- » 15" XGA (1024 x 768) VGA, DVI Input
- » Resistive Touch Panel (GFG)
- » 1000 Nits to NVIS Compatible
- » 20 Programmable Function Key
- » Amphenol MIL-DTL-38999 Connectors
- » Operating Temp. -40 ~ +65°C