

Peripherals

DC to DC Converters
Riser Cards
PoE Powered Device Module
COM/Parallel Extension Modules
PCI and PCIe NVRAM Cards
CAN bus Modules
CompactFlash Daughterboard
Industrial Gigabit Ethernet Hub
Industrial IDE 90° Converter
Industrial ADD Cards
Modules Boards

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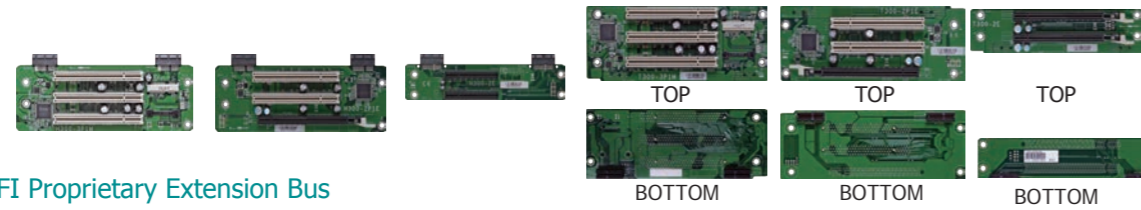
DFI[®]

Revision Control • Long Product Life Cycle



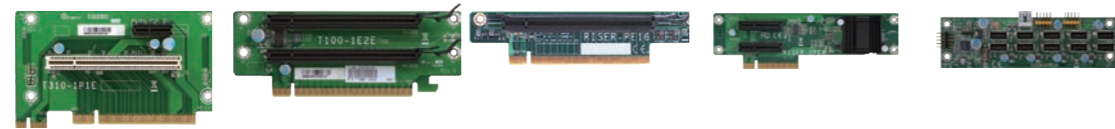


	36V	30V	24V			22V	12V	
Model	X103-DC36	X102-DC30	X102-DC24	X101-DC24		X100-DC20	X102-DC12	X101-DC12
Input Voltage	9V~36V	6V ~ 30V	20.4V ~ 25.2V			16V ~ 22V	11.4V ~ 12.6V	
Maximum Output	70W	120W	140W			120W	130W	170W
Connectors:								
20-pin ATX	N/A	1	1			1	1	
4-pin ATX	1	1	1			1	1	
4-pin FDD Power	N/A	1	2			N/A	N/A	
DC-in	1	1	1			1	1	
Dimensions	146mm x 50mm	146mm x 50mm	146mm x 50mm			170mm x 40mm	146mm x 50mm	146mm x 40mm
Height	N/A	20mm	20mm	25mm		25mm	25mm	25mm

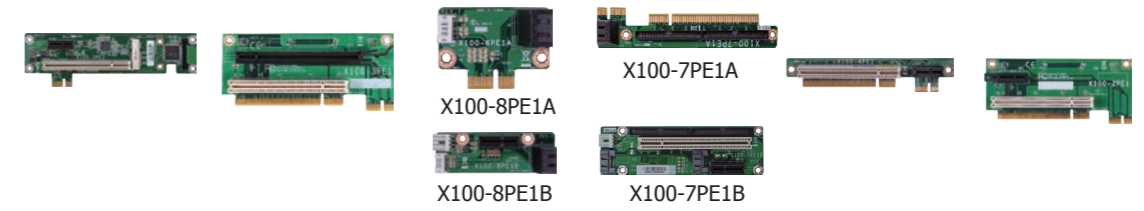


Riser Cards: DFI Proprietary Extension Bus

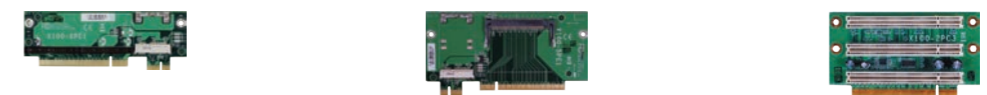
	H Series			T Series		
Model	H300-3P1M	H300-2P1E	H300-2E	T300-3P1M	T300-2P1E	T300-2E
Expansion Slots	1 Mini PCIe 3 PCI	1 PCIe x16 2 PCI	2 PCIe x8	1 Mini PCIe 3 PCI	1 PCIe x16 2 PCI	2 PCIe x16
Interface	2 DFI Proprietary Extension Bus			2 DFI Proprietary Extension Bus		
Applied Models	CR100-CRM, HR100-CRM, CM100-C					
Dimensions	170mm x 64mm	170mm x 37mm		170mm x 64mm		170mm x 41.4mm



	PCIe x1, 1 PCI	PCIe x16	PCIe x16	PCIe x4	USB
Model	T310-1P1E	T100-1E2E	RISER-PE16	RISER-2PE4	RISER-10PE1A
Expansion Slots	1 PCIe x1 + 1 PCI	2 PCIe x16 (2 x8 signal)	1 PCIe x16	2 PCIe x4	10 USB 2.0
Interface	PCIe x1 + PCI	PCIe x16	PCIe x16	PCIe x8	2 USB input
Dimensions	128mm x 72mm	137.1mm x 51.6mm	137.1mm x 31.3mm	170mm x 52.7mm	139mm x 39mm



	Mini PCIe / PCIe x1 / PCI	PCIe x16 / PCI	PCIe x1	PCIe x1 / PCI		
Model	X100-3PE2	X100-3PE1	X100-8PE1	X100-7PE1	X100-4PE1	X100-2PE1
Expansion Slots	1 Mini PCIe, 1 PCIe x1, 1 PCI	1 PCIe x16 1 PCI	1 PCIe x1	1 PCIe x1 1 PCI		
Interface	PCIe x1	PCIe x1 + PCI	PCIe x1	PCIe x1 + PCI		
Dimensions	170mm x 52.7mm	125mm x 57.5mm	X100-8PE1A 48mm x 35mm X100-8PE1B 75mm x 25mm	X100-7PE1A 128.97mm x 28.4mm X100-7PE1B 125mm x 38mm	142mm x 28.38mm	125mm x 57.5mm



	Mini PCIe / PCI	Mini PCIe / Mini PCI	PCI
Model	X100-6PE1	X100-5PE1	X100-2PC3
Expansion Slots	1 Mini PCIe x1 2 PCI	1 Mini PCIe x1 1 Mini PCI	3 PCI
Interface	PCIe x1 + PCI	PCIe x1 + PCI	PCI
Dimensions	143.1mm x 51.6mm	150mm x 77.38mm	112.5mm x 65mm



Riser Cards

	PCI		PCI	Mini PCIe, PCI
Model	X100-3PC2	X100-2PC2	X100-1PC1	X100-2P1M
Expansion Slots	2 PCI		1 PCI	1 Mini PCIe, 2 PCI
Interface	PCI		PCI	PCIe x1
Dimensions	X100-3PC2A 105mm x 16.5mm X100-3PC2B 120mm x 38mm	92mm x 44.3mm	125mm x 29.78mm	170mm x 52.7mm

CompactFlash Daughterboard



Model	EXT-2CF1
Features	IDE to CF Module DMA mode support
Dimensions	90mm x 60mm



CAN bus Modules

	CAN-bus	
Model	MPE-CAN	CAN-C
Expansion Slots	2 CAN-bus	
Interface	Mini PCIe	
Dimensions	50.59mm x 30mm	100.1mm x 33mm

PoE Powered Device Module



Model	XPD-DC12/DC24
Chip	MAX5969
Port	1 PoE(PD) LAN, 1 data LAN port
Dimensions	100mm x 54mm



COM/Parallel Extension Modules

	COM / Parallel	COM / Parallel	COM / Parallel
Model	EXT-6C1PR	EXT-4C1PR	EXT-2C1PR
Features	6 COM 1 Parallel	4 COM 1 Parallel	2 COM 1 Parallel
Dimensions	101.4 mm x 48.89 mm	101.4 mm x 48.89 mm	101.4 mm x 48.89 mm



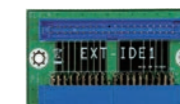
Industrial Gigabit Ethernet Hub

	Gigabit Ethernet Hub
Chip	Realtek RTL8366S
Model	SH8366
LAN Ports	4
Interface	N/A
Dimensions	140mm x 45mm



PCI and PCIe NVRAM Cards

Chip	4M NVRAM Chip	1M NVRAM Chip	4M NVRAM Chip	1M NVRAM Chip
	CY62167EV	CY62146EV	CY62167EV	CY62146EV
Model	NVRAM-PCIE		NVRAM-SP	
Interface	PCIe x1		PCI	
Power Consumption	4.6uA		4.6uA	
Battery	1 Li-battery CR2450 (600mA)		1 Li-battery CR2450 (600mA)	
Dimensions	167.65mm x 68.85mm		120mm x 64mm	



Industrial IDE 90° Converter

Model	EXT-IDE1
Features	Available for DOM
Dimensions	70mm x 40mm

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Industrial ADD Cards

Chip	Chrontel CH7308B
Model	ADD7308
Display Outputs	1 LVDS
Interface	PCIe x16
Dimensions	145mm x 60mm



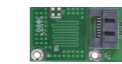
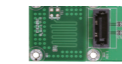
Modules Boards

Model	SDVO-LVDS	PIC-DVI	EXT-DP
Chip	Chrontel CH7308B	ASMedia ASM1442	SN75DP130
Port	1 LVDS	1 DVI	1 DP
Applied Models	SB102-D, SB300-C, SB630-CRM, SB600-C, SB601-C	PIC-H61	HU171/173, HU101/103, HM100/101/103-QM87/HM86, HD332-H81
Dimensions	45mm x 38mm	45mm x 38mm	50mm x 40mm



Mini PCIe Modules

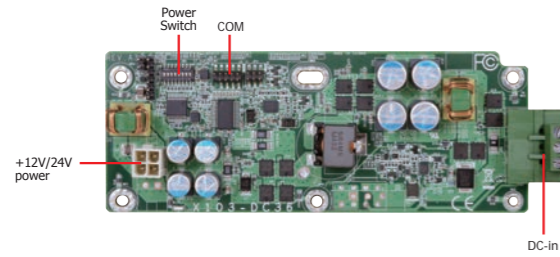
Model	MPE-EXTF	MPE-EXTB
Expansion Slots	1 full size Mini PCIe	
Interface	half size Mini PCIe	
Dimensions	30mm x 26.8mm	30mm x 26.8mm



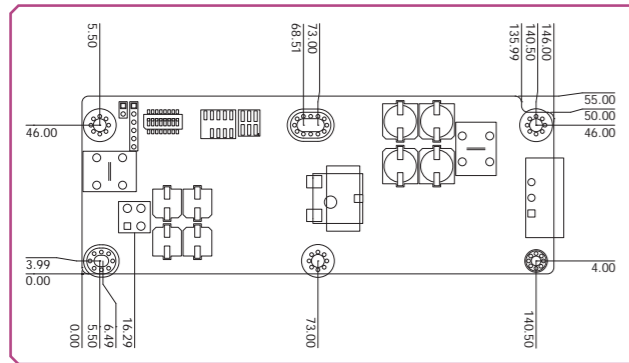
mSATA to SATA Modules

Model	MPE-SATA
Port	1 SATA
Interface	mSATA
Dimensions	35mm x 25mm

X103-DC36



Mechanical Drawing



Features

- Designed for Car PC
- Controls the power on/off switch of the Car PC based on the ignition status of the car
- Ideal for mobile processor-based systems

Specifications

INPUT VOLTAGE

- 9V - 36V

OUTPUT VOLTAGE

- 12V/24V

MAXIMUM OUTPUT

- 70W

CONNECTORS

- One DC-in connector
- One 4-pin power connector
- One connector for 1 external RS232 serial port (2.0mm pitch)
- One power switch

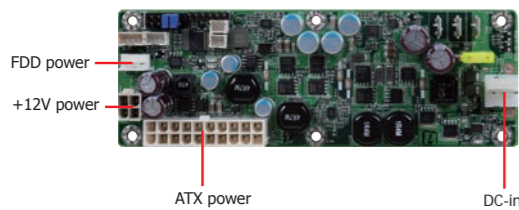
ENVIRONMENTS

- Temperature: -20°C to 70°C
- Relative Humidity: 5% to 90%

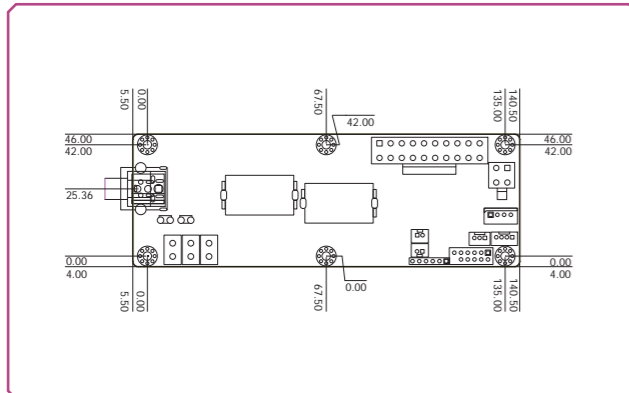
DIMENSIONS

- 146mm x 55mm (5.75" x 2.17")

X102-DC30



Mechanical Drawing



Features

DIMENSIONS	146mm x 50mm (5.75" x 1.97")
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Specifications

INPUT VOLTAGE

- 6V - 30V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current (maximum)
+3.3V ±5%	6.0A
+5V ±5%	6.0A
5VSB ±5%	1.5A
+12V ±5%	5A
-12V ±10%	0.15A

MAXIMUM OUTPUT

- 120W

CONNECTORS

- One 3-pin DC-in Connector
- One 4-pin ATX 12V power
- One 20-pin ATX power
- One 4-pin FDD power

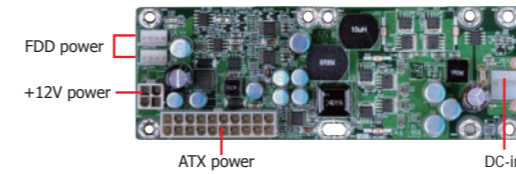
ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

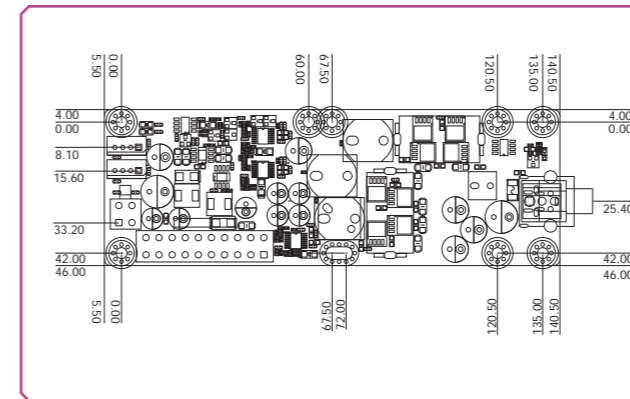
DIMENSIONS

- 6 layers, 146mm x 50mm (5.75" x 1.97")
- Height: 20mm

X102-DC24



Mechanical Drawing



Features

DIMENSIONS	146mm x 50mm (5.75" x 1.97")
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Specifications

INPUT VOLTAGE

- 20.4V - 25.2V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current (maximum)
+3.3V ±5%	5.0A
+5V ±5%	8.0A
5VSB ±5%	2.0A
+12V ±5%	6.0A
-12V ±10%	0.2A

MAXIMUM OUTPUT

- 140W

CONNECTORS

- One 3-pin DC-in Connector
- One 4-pin ATX 12V power
- One 20-pin ATX power
- Two 4-pin FDD power

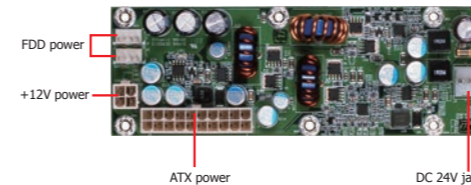
ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

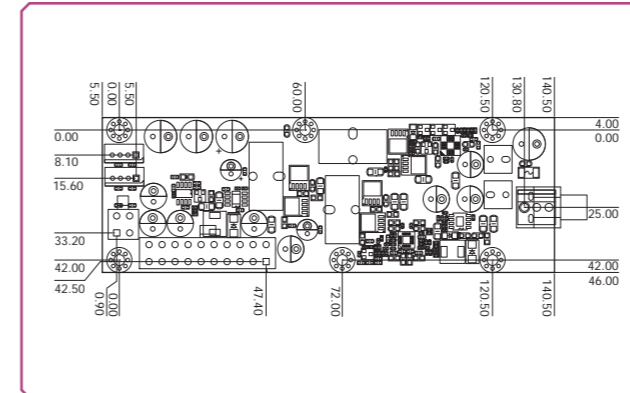
DIMENSIONS

- 6 layers, 146mm x 50mm (5.75" x 1.97")
- Height: 20mm

X101-DC24



Mechanical Drawing



Features

DIMENSIONS	146mm x 50mm (5.75" x 1.97")
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Specifications

INPUT VOLTAGE

- 20.4V - 25.2V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current (maximum)
+3.3V ±5%	5.0A
+5V ±5%	8.0A
5VSB ±5%	2.0A
+12V ±5%	6.0A
-12V ±10%	0.2A

MAXIMUM OUTPUT

- 140W

CONNECTORS

- One 3-pin DC-in Connector
- One 4-pin ATX 12V power
- One 20-pin ATX power
- Two 4-pin FDD power

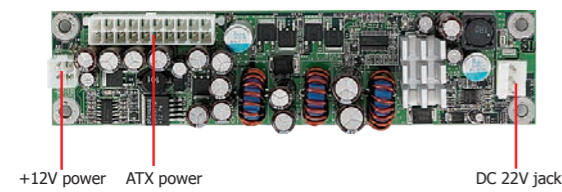
ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

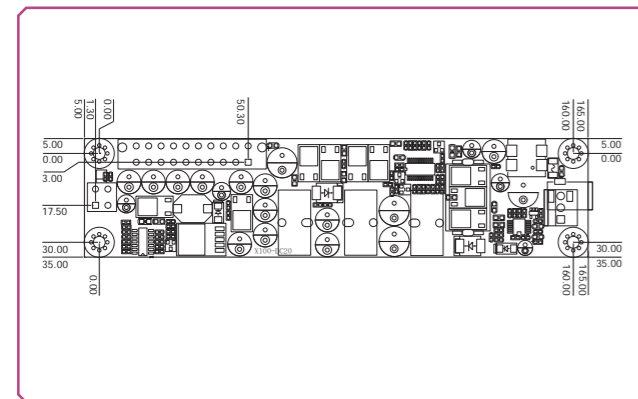
DIMENSIONS

- 6 layers, 146mm x 50mm (5.75" x 1.97")
- Height: 25mm

X100-DC20



Mechanical Drawing



Features

DIMENSIONS 170mm x 40mm (6.7" x 1.6")

Specifications

INPUT VOLTAGE

- 16V - 22V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current (maximum)
+3.3V ±5%	5.0A
+5V ±5%	5.0A
5VSB ±5%	1.5A
+12V ±5%	6.0A
-12V ±10%	0.1A

MAXIMUM OUTPUT

- 120W

CONNECTORS

- One DC jack
- One 4-pin ATX 12V power
- One 20-pin ATX power

ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

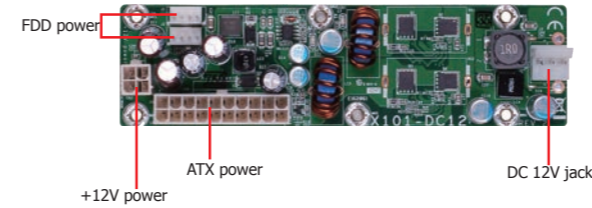
DC INPUT

- 2.5mm jack

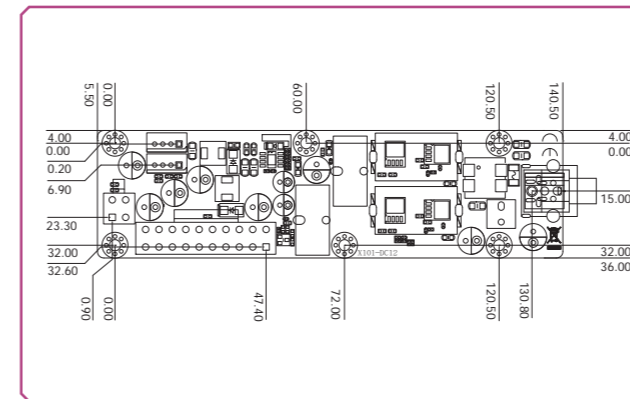
DIMENSIONS

- 4 layers, 170mm x 40mm (6.7" x 1.6")
- Height: 25mm

X101-DC12



Mechanical Drawing



Features

DIMENSIONS 146mm x 40mm (5.75" x 1.6")

Specifications

INPUT VOLTAGE

- 11.4V - 12.6V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current	Power Output	Test Result
+3.3V	6.0A	19.8W	168.2W (max.)
+5V	8.0A	40W	
5VSB	2.0A	10W	
+12V	8.0A	96W	
-12V	0.2A	2.4W	

MAXIMUM OUTPUT

- 170W

CONNECTORS

- One DC 12V jack
- One 4-pin ATX 12V power
- One 20-pin ATX power

ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

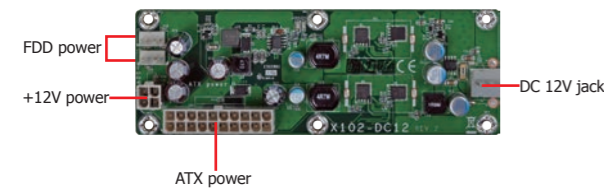
DC INPUT

- 2.5mm 12V jack

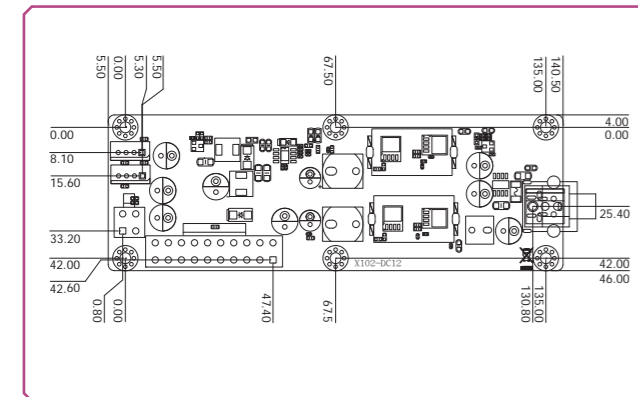
DIMENSIONS

- 4 layers, 146mm x 40mm (5.75" x 1.6")
- Height: 25mm

X102-DC12



Mechanical Drawing



Features

DIMENSIONS 146mm x 50mm (5.75" x 1.97")

Specifications

INPUT VOLTAGE

- 11.4V - 12.6V

OUTPUT VOLTAGE

- Power for DC voltages

Output Voltage	Output Current	Power Output	Test Result
+3.3V	5A	16.5W	125.9W
+5V	5A	25W	
5VSB	2A	10W	
+12V	6A	72W	
-12V	0.2A	2.4W	

MAXIMUM OUTPUT

- 130W

CONNECTORS

- One DC 12V jack
- One 4-pin ATX +12V power
- One 20-pin ATX power

ENVIRONMENTS

- Temperature: 0-60°C/32-140°F
- Relative Humidity: 10%-90%

DC INPUT

- 2.5mm 12V jack

DIMENSIONS

- 4 layers, 146mm x 50mm (5.74" x 1.96")
- Height: 25mm

AGS-TECH Inc

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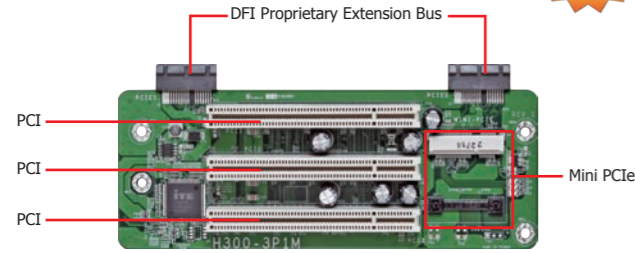
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H300-3P1M



► Features

EXPANSION SLOTS	1 Mini PCIe, 3 PCI
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 64mm (6.7" x 2.52")

► Specifications

EXPANSION SLOTS

- One Mini PCIe slot
- Three PCI slots
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

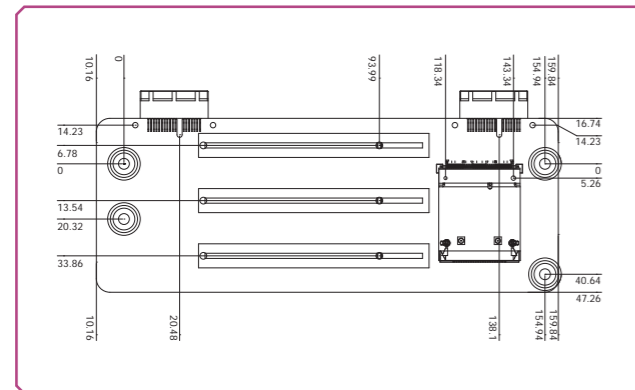
DIMENSIONS

- 170mm x 64mm (6.7" x 2.52")

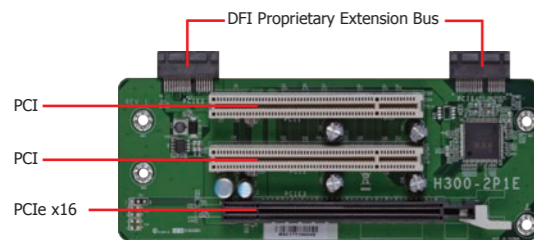
APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C

► Mechanical Drawing



H300-2P1E



► Features

EXPANSION SLOTS	1 PCIe x16, 2 PCI
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 64mm (6.7" x 2.52")

► Specifications

EXPANSION SLOTS

- One PCIe x16 slot (x1 signal)
- Two PCI slots
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

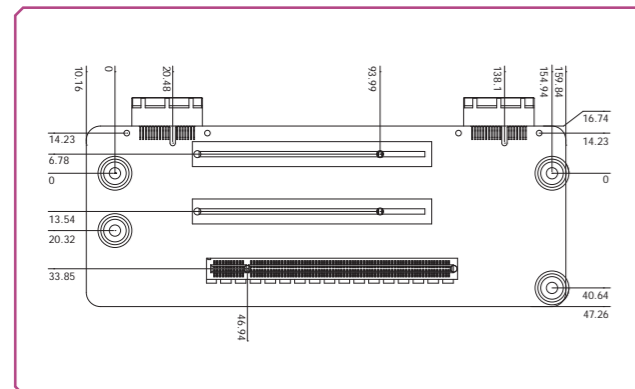
DIMENSIONS

- 170mm x 64mm (6.7" x 2.52")

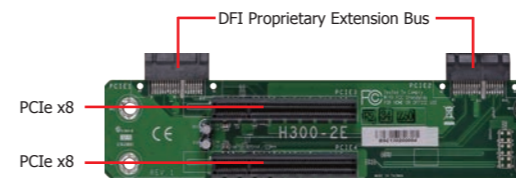
APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C

► Mechanical Drawing



H300-2E



► Features

EXPANSION SLOTS	2 PCIe x8
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 37mm (6.7" x 1.46")

► Specifications

EXPANSION SLOTS

- Two PCIe x8 slots (x1 signal)

INTERFACE

- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

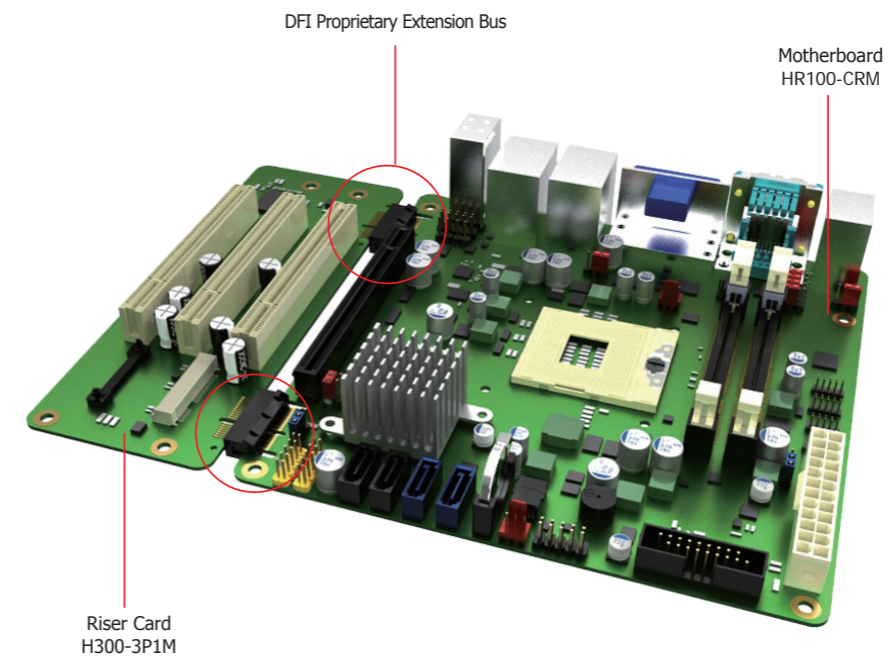
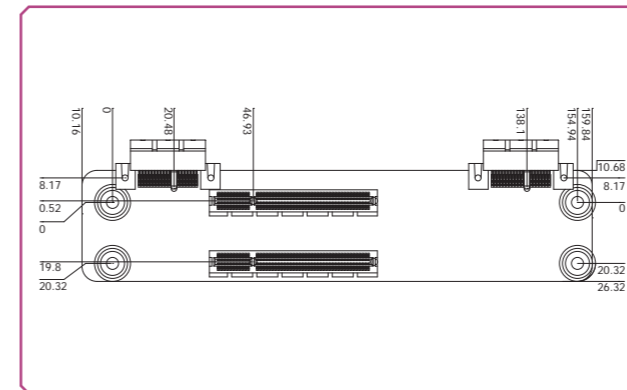
DIMENSIONS

- 170mm x 37mm (6.7" x 1.46")

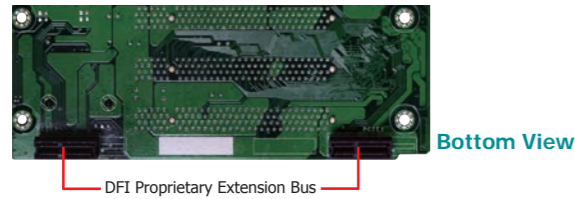
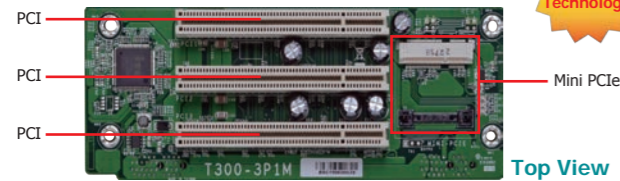
APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C

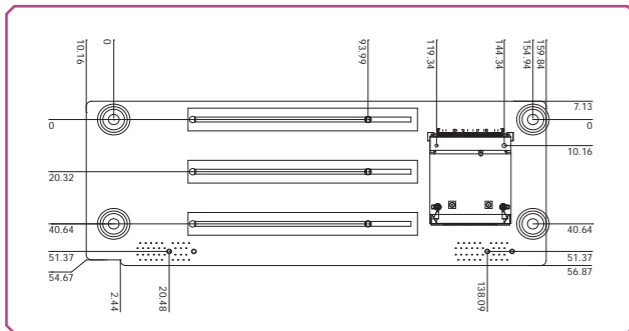
► Mechanical Drawing



T300-3P1M



Mechanical Drawing



Features

EXPANSION SLOTS	1 Mini PCIe, 3 PCI
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 64mm (6.7" x 2.52")

Specifications

EXPANSION SLOTS

- One Mini PCIe slot
- Three PCI slots
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

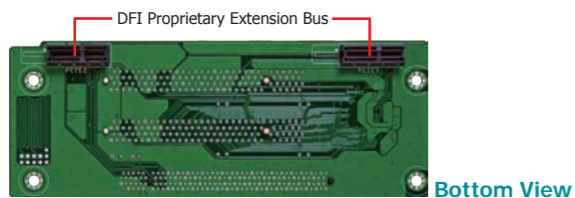
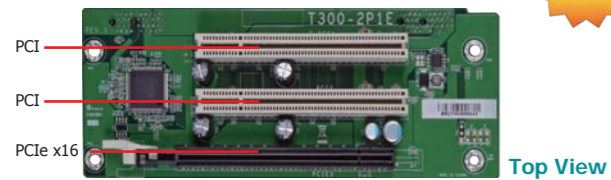
DIMENSIONS

- 170mm x 64mm (6.7" x 2.52")

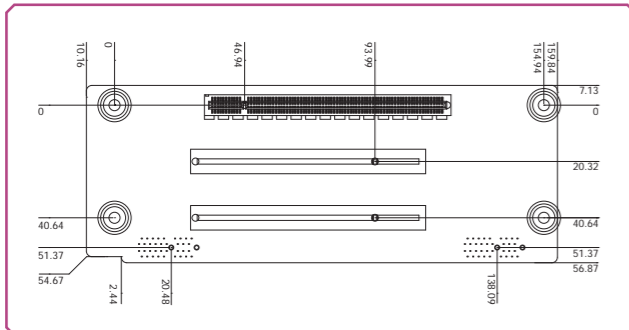
APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C

T300-2P1E



Mechanical Drawing



Features

EXPANSION SLOTS	1 PCIe x16, 2 PCI
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 64mm (6.7" x 2.52")

Specifications

EXPANSION SLOTS

- One PCIe x16 slot (x1 signal)
- Two PCI slots
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

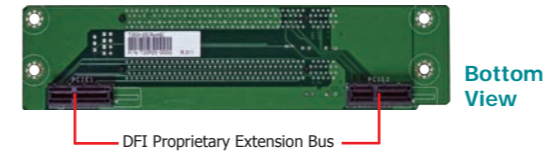
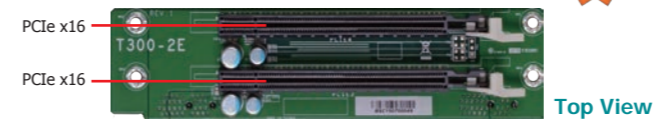
DIMENSIONS

- 170mm x 64mm (6.7" x 2.52")

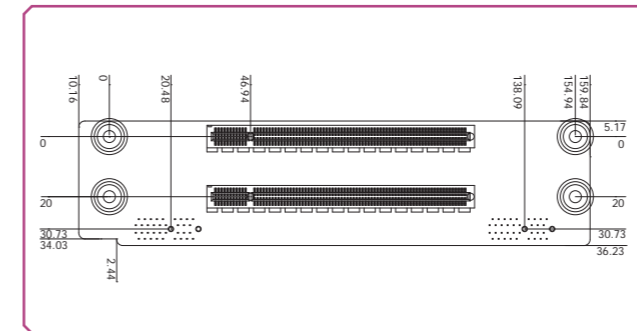
APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C

T300-2E



Mechanical Drawing



Features

EXPANSION SLOTS	2 PCIe x16
INTERFACE	2 DFI Proprietary Extension Bus
DIMENSIONS	170mm x 41.4mm (6.7" x 1.63")

Specifications

EXPANSION SLOTS

- Two PCIe x16 slots (x1 signal)

INTERFACE

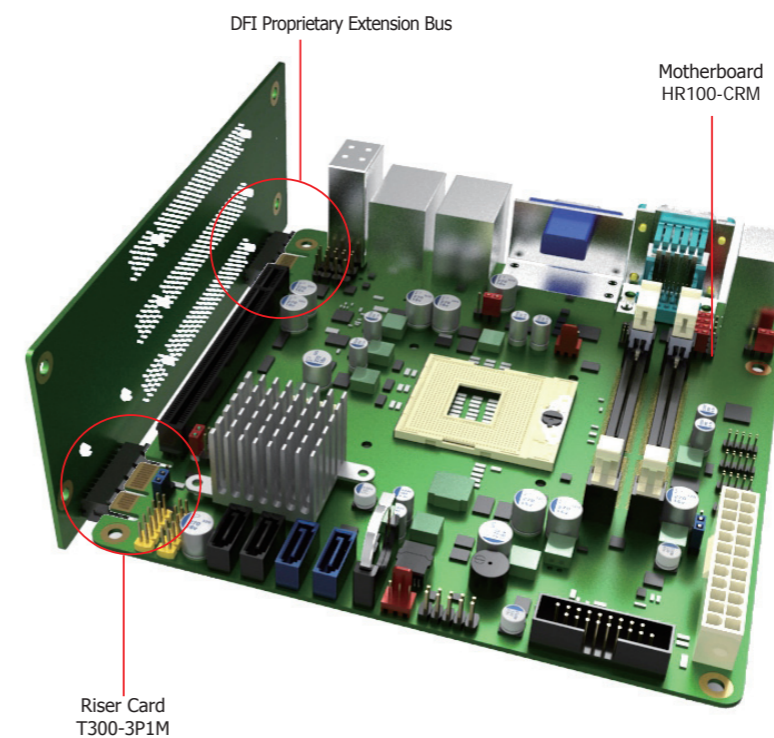
- 2 DFI Proprietary Extension Bus
 - Connects to the 2 DFI Proprietary Extension Bus of the Motherboard

DIMENSIONS

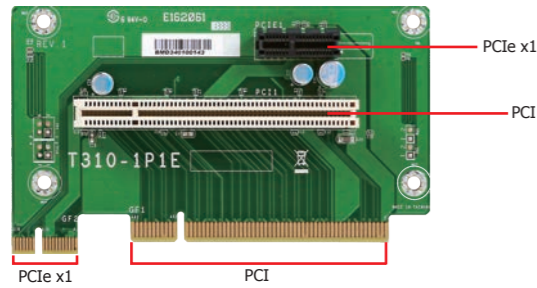
- 170mm x 41.4mm (6.7" x 1.63")

APPLICABLE MOTHERBOARDS

- HR100-CRM, CR100-CRM, CM100-C



T310-1P1E



► Features

EXPANSION SLOTS	1 PCIe x1, 1 PCI
INTERFACE	PCIe x1 + PCI
DIMENSIONS	128mm x 72mm (5" x 2.83")

► Specifications

EXPANSION SLOTS

- 1 PCIe x1 slot
- 1 PCI slot
- PCI 2.3, 32-bit, 33MHz

INTERFACE

- PCIe x1 + PCI

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

HUMIDITY

- 10% to 90%

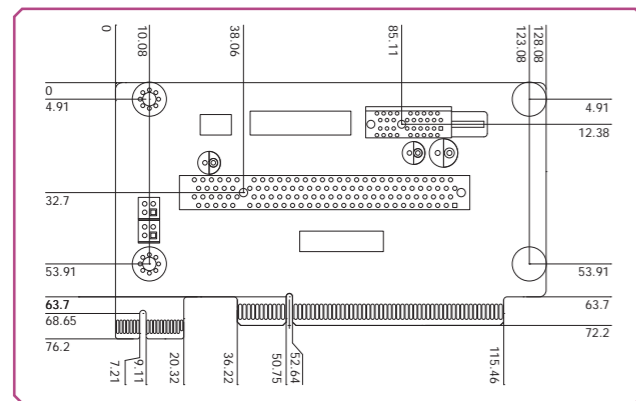
DIMENSIONS

- 128mm x 72mm (5" x 2.83")

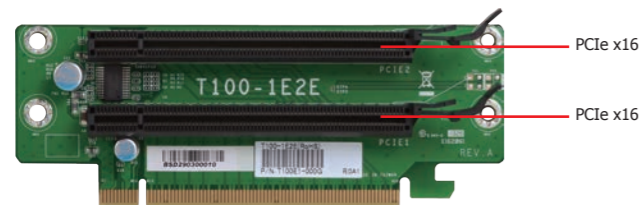
APPLICABLE MOTHERBOARDS

- LR100-N16D/S/M, LR100-N18D/S/M

► Mechanical Drawing



T100-1E2E



► Features

EXPANSION SLOTS	2 PCIe x16 (2 x8 signal)
INTERFACE	PCIe x16
DIMENSIONS	137.1mm x 51.6mm (5.39" x 2.03")

► Specifications

EXPANSION SLOTS

- 2 PCIe x16 (2 x8 signal)

INTERFACE

- PCIe x16

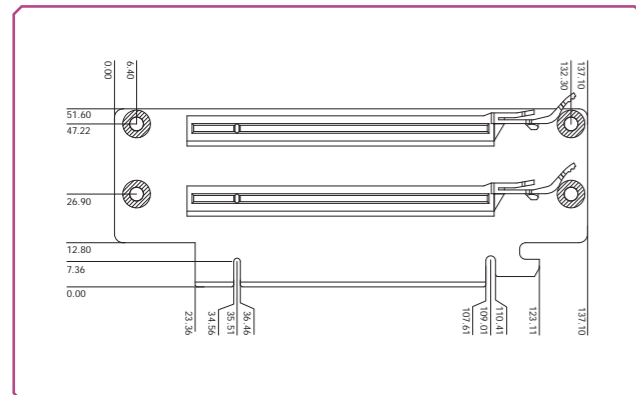
APPLIED MODELS

- All workstation and mobile models

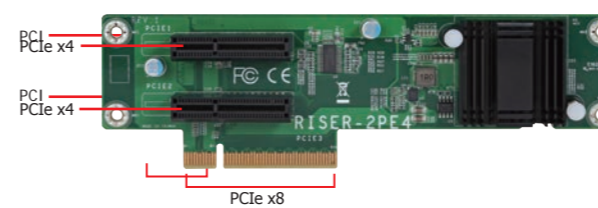
DIMENSIONS

- 137.1mm x 51.6mm (5.39" x 2.03")

► Mechanical Drawing



RISER-2PE4



► Features

EXPANSION SLOTS	2 PCIe x4
INTERFACE	1 PCIe x8
DIMENSIONS	170mm x 52.7mm (6.7" x 2.07")

► Specifications

EXPANSION SLOTS


- 2 PCIe x4 slots

INTERFACE

- 1 PCIe x8

APPLIED MODELS

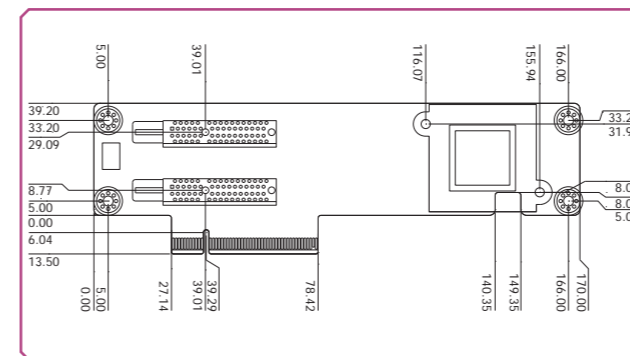
- SB102-D

 Note: A customized BIOS is required for the riser card to work with other DFI motherboards. Please contact your sales representative for more information.

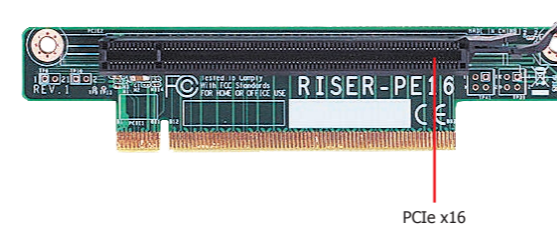
DIMENSIONS

- 170mm x 52.7mm (6.7" x 2.07")

► Mechanical Drawing



RISER-PE16



► Features

EXPANSION SLOTS	1 PCIe x16
INTERFACE	PCIe x16
DIMENSIONS	137.1mm x 31.3mm (5.4" x 1.23")

► Specifications

EXPANSION SLOTS

- One PCIe x16 slot
- PCIe 2.0

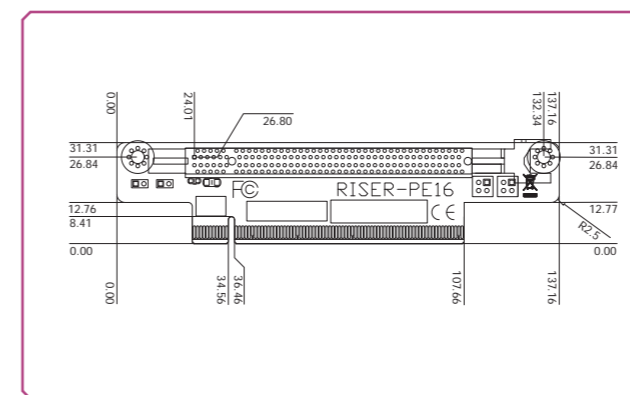
INTERFACE

- PCIe x16

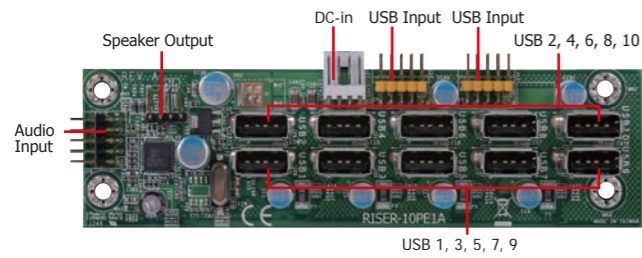
DIMENSIONS

- 137.1mm x 31.3mm (5.4" x 1.23")

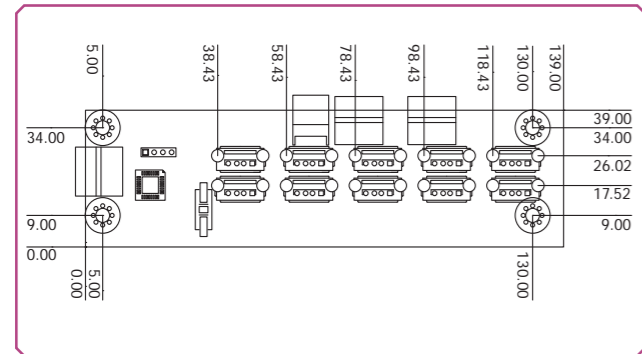
► Mechanical Drawing



RISER-10PE1A



Mechanical Drawing



Features

PORTS	6W+6W audio speaker output 10 USB 2.0/1.1 ports
INTERFACE	2 USB input ports
DIMENSIONS	139mm x 39mm (5.47" x 1.54")

Specifications

CHIP

- SMSC USB2517 chip for USB hub supporting ports 1-7
- 6W+6W audio amplifier chip (MAXIM MAX9736B)

PORTS

- 10 USB 2.0/1.1 ports
 - USB 1~7 port: USB hub downstream ports
 - USB 8~10 port: bypass from motherboard
- 1 audio input connector
- 1 speaker output connector (6W+6W)
- 1 5V/12V DC-in connector

INTERFACE

- 2 connectors for total of 4 USB source input ports

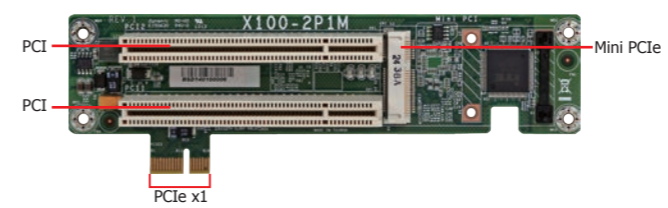
TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -40°C to 70°C

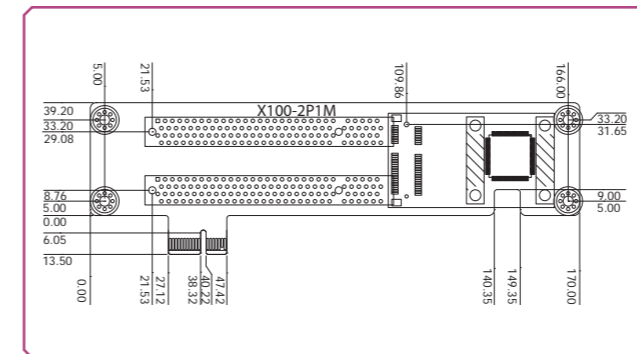
DIMENSIONS

- 139mm x 39mm (5.47" x 1.54")

X100-2P1M



Mechanical Drawing



Features

EXPANSION SLOTS	1 Mini PCIe, 2 PCI
INTERFACE	1 PCIe x1
DIMENSIONS	170mm x 52.7mm (6.7" x 2.07")

Specifications

EXPANSION SLOTS

- 1 Mini PCIe slot
 - Supports full size or half size Mini PCIe card
- 2 PCI slots
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 1 PCIe x1

APPLIED MODELS

- SB102-D

DIMENSIONS

- 170mm x 52.7mm (6.7" x 2.07")

AGS-TECH Inc

Phone: +1-505-550-6501 and +1-505-565-5102

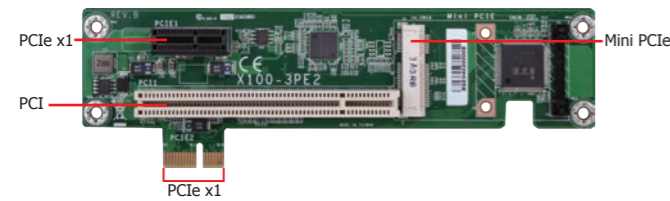
Fax: +1-505-814-5778

Email: sales@agstech.net

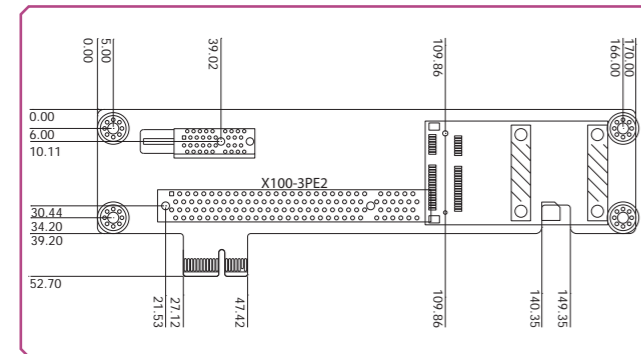
Web: <http://www.agstech.net>



X100-3PE2



Mechanical Drawing



Features

EXPANSION SLOTS	1 Mini PCIe, 1 PCIe x1, 1 PCI
INTERFACE	1 PCIe x1
DIMENSIONS	170mm x 52.7mm (6.7" x 2.07")

Specifications

EXPANSION SLOTS

- One Mini PCIe slot
 - Supports full size and/or half size Mini PCIe card
- One PCIe x1 slot
 - PCIe 1.0
- One PCI slot
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- 1 PCIe x1

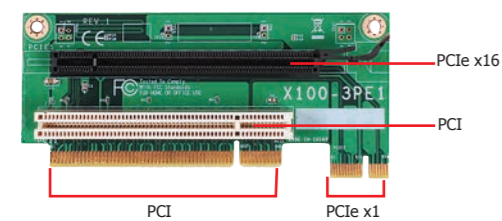
APPLIED MODELS

- SB102-D

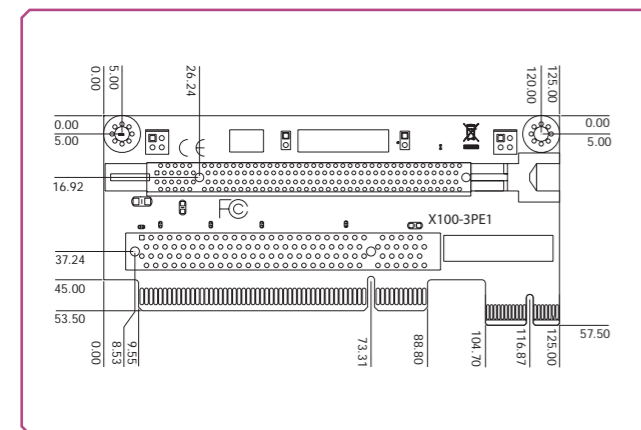
DIMENSIONS

- 170mm x 52.7mm (6.7" x 2.07")

X100-3PE1



Mechanical Drawing



Features

EXPANSION SLOTS	1 PCIe x16, 1 PCI
INTERFACE	PCIe x1 + PCI
DIMENSIONS	125mm x 57.5mm (4.92" x 2.26")

Specifications

EXPANSION SLOTS

- One PCIe x16 slot
 - PCIe 2.0
- One PCI slot
 - PCI 2.3, 32-bit, 33MHz

INTERFACE

- PCIe x1 + PCI

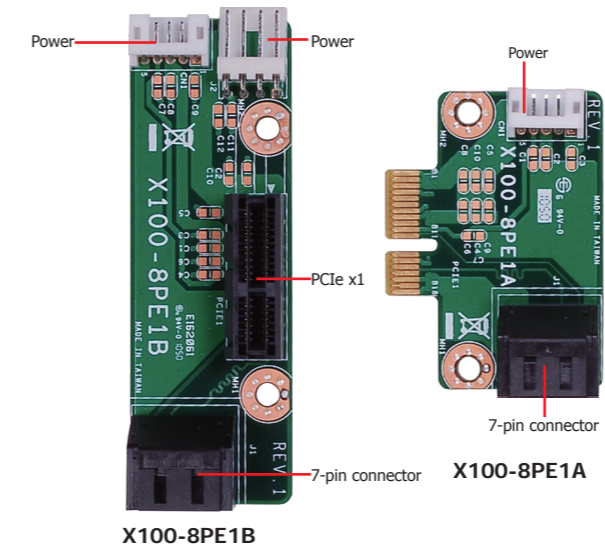
APPLIED MODELS

- LR100-N18 Series, LR100-N16 Series, LR101-B16 Series, CP100-NRM, CA101-D, CA100-D, NP102-N16C, NP101-D16C, NP100-N16C, CT132-B, AM100-BF/B, CA230-BF/B

DIMENSIONS

- 125mm x 57.5mm (4.92" x 2.26")

X100-8PE1



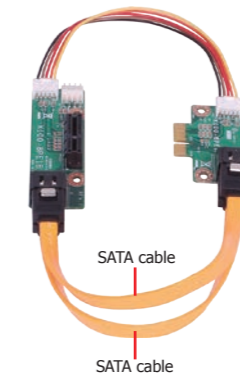
Features

EXPANSION SLOTS	1 PCIe x1
INTERFACE	PCIe x1
DIMENSIONS	X100-8PE1A: 48mm x 35mm (1.89" x 1.38") X100-8PE1B: 75mm x 25mm (2.95" x 0.98")

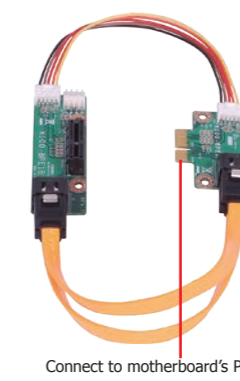
Step 1



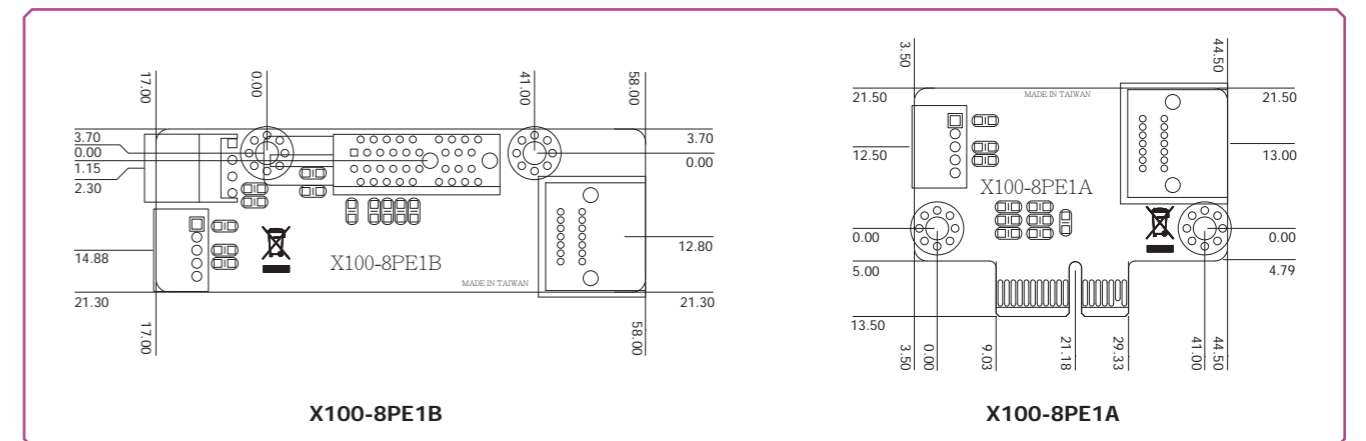
Step 2



Step 3



Mechanical Drawing



Specifications

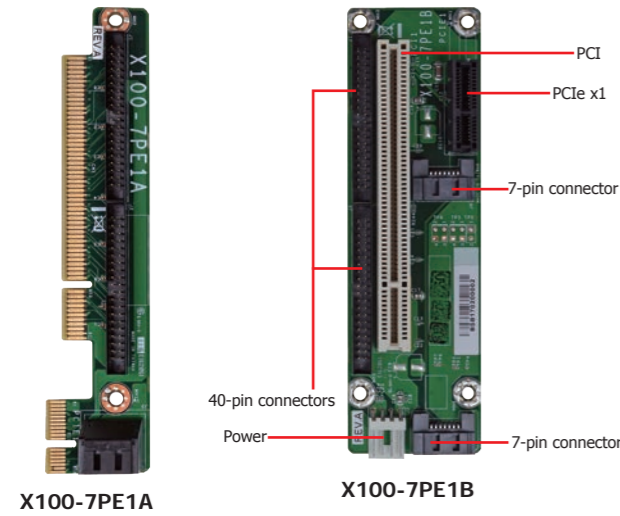
X100-8PE1B

- Connects to the X100-8PE1A Expansion Card
 - One PCIe x1 slot (PCIe 1.0)
 - One 5-pin power connector
 - One 4-pin FDD-type power connector
 - Two 7-pin PCIe signal connectors

X100-8PE1A

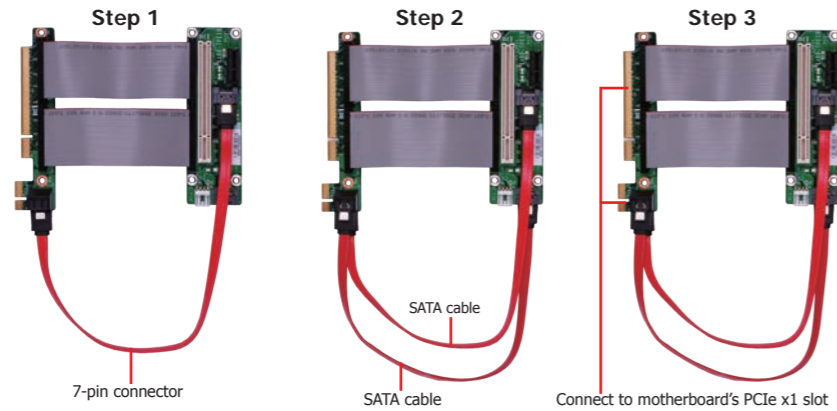
- Connects to the Motherboard
 - One 36-pin PCIe x1 gold fingers
 - One 5-pin power connector
 - Two 7-pin PCIe signal connectors

X100-7PE1

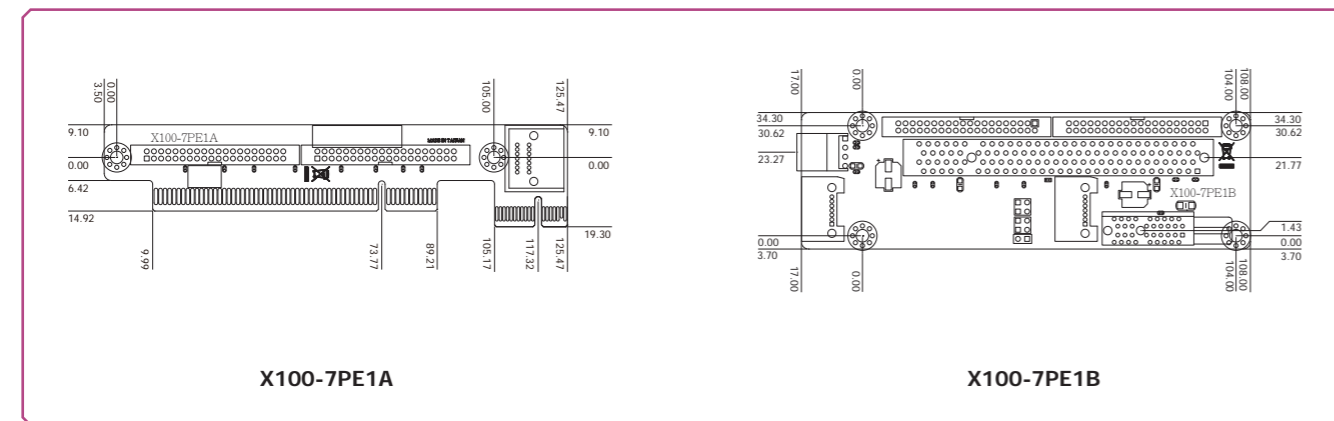


Features

EXPANSION SLOTS	1 PCIe x1, 1 PCI
INTERFACE	PCIe x1 + PCI
DIMENSIONS	X100-7PE1A: 128.97mm x 28.4mm (5.08" x 1.12") X100-7PE1B: 125mm x 38mm (4.92" x 1.5")



Mechanical Drawing



Specifications

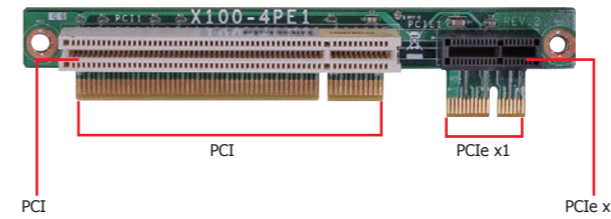
X100-7PE1A

- Connects to the Motherboard
- One 124-pin PCI gold fingers
- One 36-pin PCIe x1 gold fingers
- Two 40-pin PCI signal connectors
- Two 7-pin PCIe signal connectors

X100-7PE1B

- Connects to the X100-7PE1A Expansion Card
- One PCIe x1 slot (PCIe 1.0)
- One PCI slot (PCI 2.3, 32-bit, 33MHz)
- Two 40-pin PCI signal connectors
- Two 7-pin PCIe signal connectors
- One 4-pin FDD-type power connector

X100-4PE1



Features

EXPANSION SLOTS	1 PCIe x1, 1 PCI
INTERFACE	PCIe x1 + PCI
DIMENSIONS	142mm x 28.38mm (5.59" x 1.12")

Specifications

EXPANSION SLOTS

- One PCIe x1 slot
- PCIe 2.0
- One PCI slot
- PCI 2.3, 32-bit, 33MHz

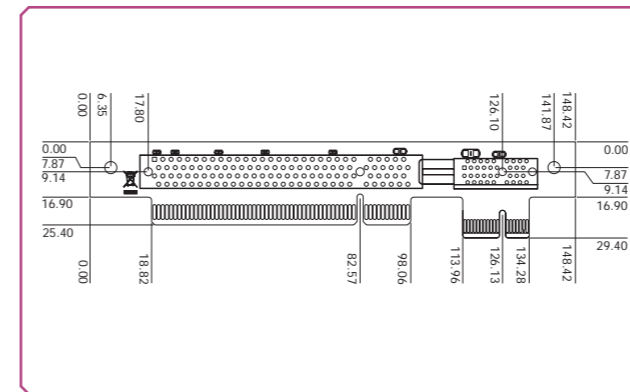
INTERFACE

- PCIe x1 + PCI

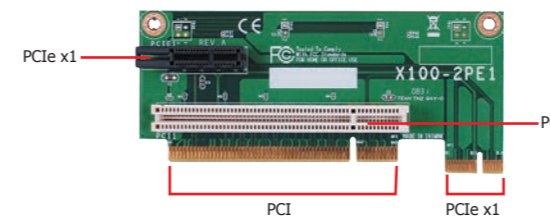
DIMENSIONS

- 142mm x 28.38mm (5.59" x 1.12")

Mechanical Drawing



X100-2PE1



Features

EXPANSION SLOTS	1 PCIe x1, 1 PCI
INTERFACE	PCIe x1 + PCI
DIMENSIONS	125mm x 57.5mm (4.92" x 2.26")

Specifications

EXPANSION SLOTS

- 1 PCIe x1
- 1 PCI

INTERFACE

- PCI + PCIe x1

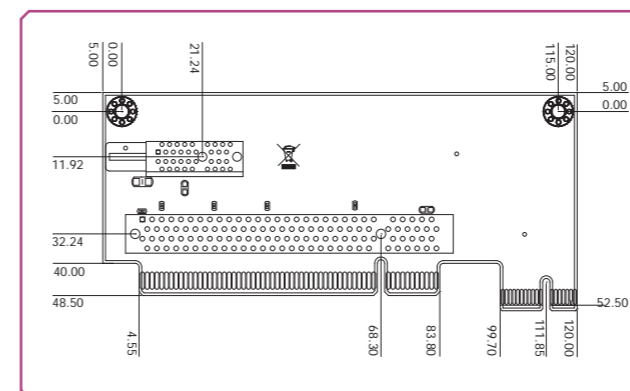
APPLIED MODELS

- LR100-N18 Series, LR100-N16 Series, LR101-B16 Series, CP100-NRM, CA101-D, CA100-D, NP102-N16C, NP101-D16C, NP100-N16C, CT132-B, AM100-BF/B, CA230-BF/B

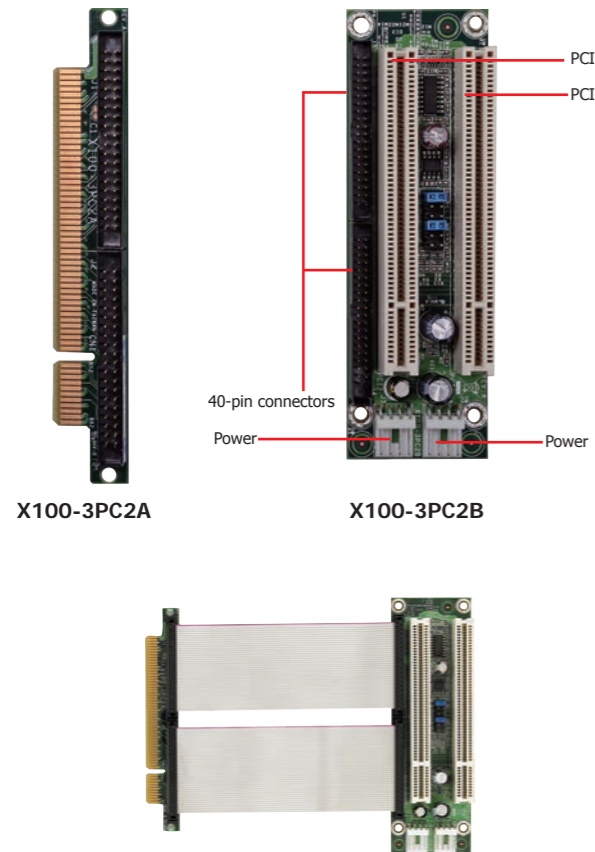
DIMENSIONS

- 125mm x 57.5mm (4.92" x 2.26")

Mechanical Drawing



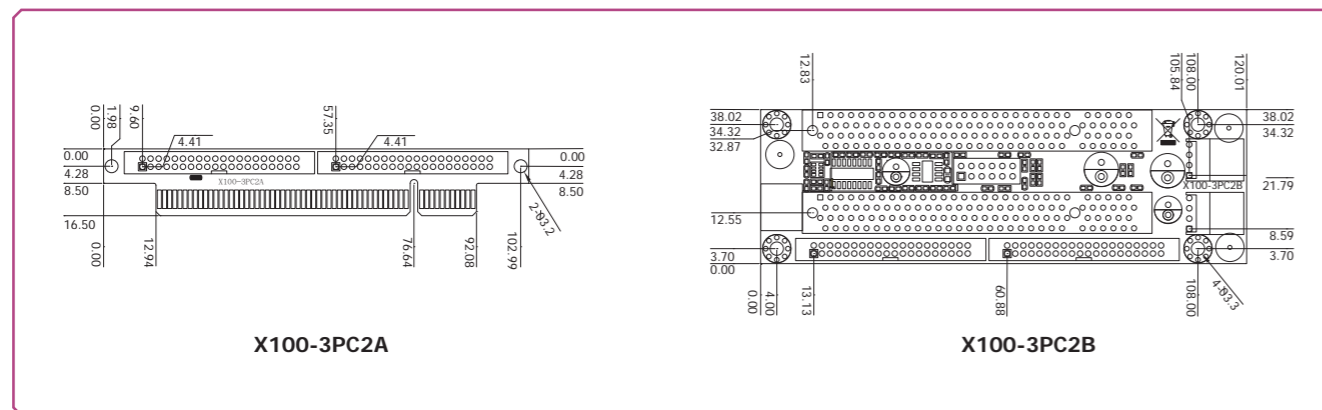
X100-3PC2



► Features

EXPANSION SLOTS	2 PCI
INTERFACE	PCI
DIMENSIONS	X100-3PC2A: 105mm x 16.5mm (4.13" x 0.65") X100-3PC2B: 120mm x 38mm (4.72" x 1.496") Flat Cable Length: 100mm

► Mechanical Drawing



► Specifications

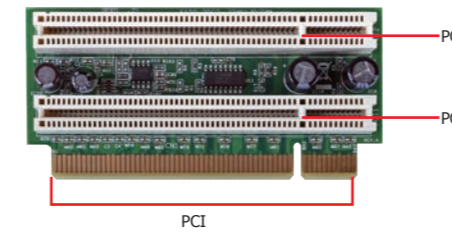
X100-3PC2A

- DIMENSIONS**
- 105mm x 16.5mm (4.13" x 0.65")

X100-3PC2B

- EXPANSION SLOTS**
- 2 PCI
- APPLIED MODELS**
- All Mini-ITX models
- DIMENSIONS**
- 120mm x 38mm (4.72" x 1.496")
 - Flat Cable Length: 100mm

X100-2PC2



► Features

EXPANSION SLOTS	2 PCI
INTERFACE	PCI
DIMENSIONS	92mm x 44.3mm (3.63" x 1.74")

► Specifications

EXPANSION SLOTS

- 2 PCI

INTERFACE

- PCI

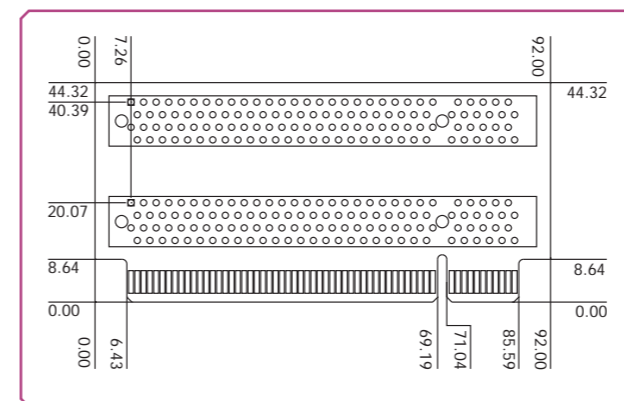
APPLIED MODELS

- All Mini-ITX models

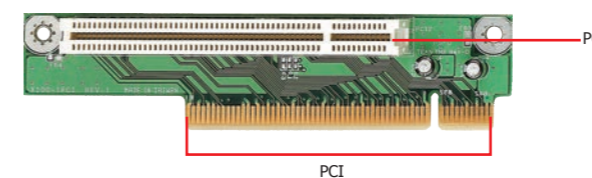
DIMENSIONS

- 92mm x 44.3mm (3.63" x 1.74")

► Mechanical Drawing



X100-1PC1



► Features

EXPANSION SLOTS	1 PCI
INTERFACE	PCI
DIMENSIONS	125mm x 29.78mm (4.92" x 1.17")

► Specifications

EXPANSION SLOTS

- 1 PCI

INTERFACE

- PCI

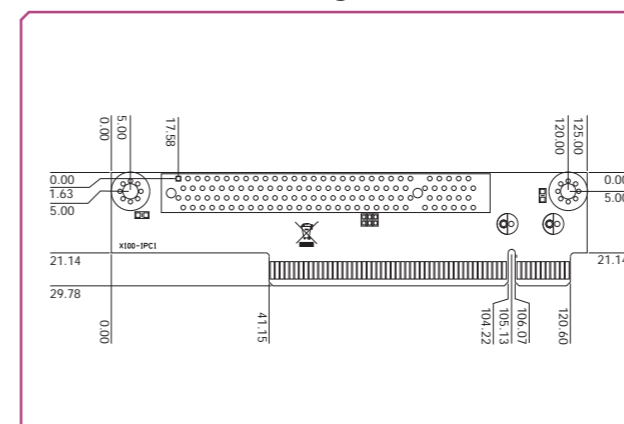
APPLIED MODELS

- All Mini-ITX models

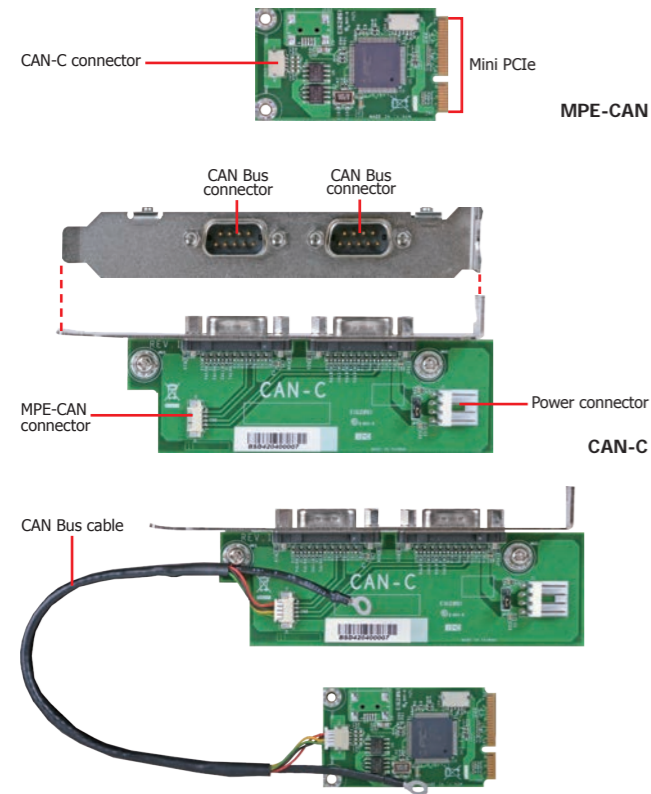
DIMENSIONS

- 125mm x 29.78mm (4.92" x 1.17")

► Mechanical Drawing



MPE-CAN+CAN-C



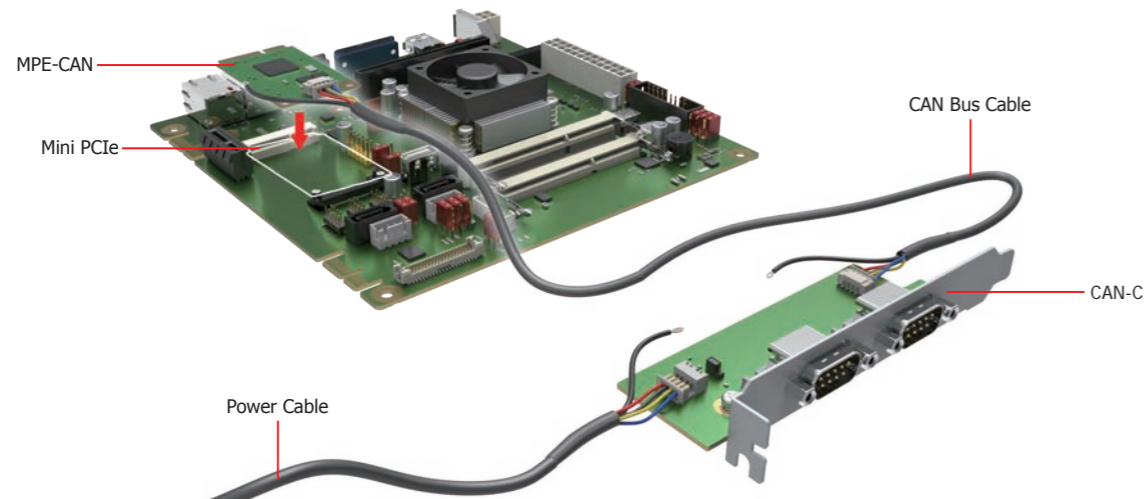
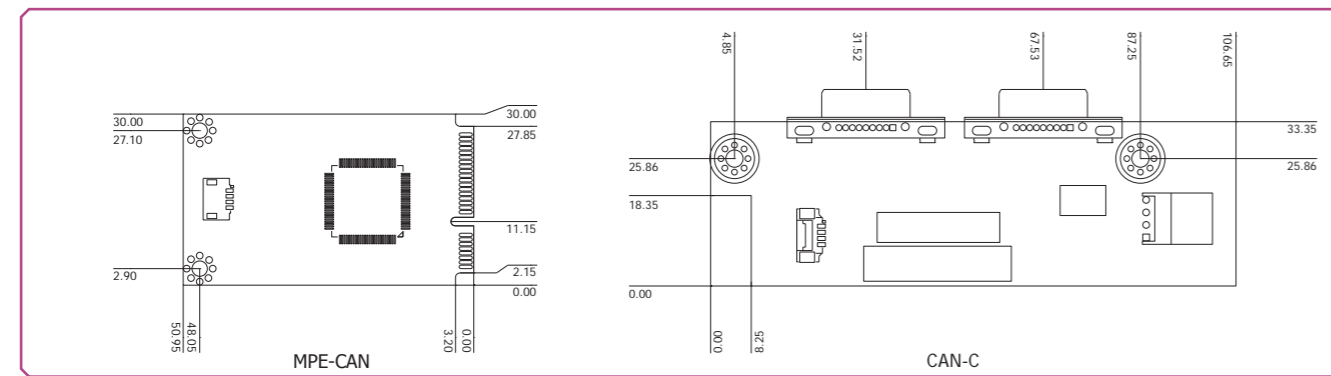
► Features

CHIP	Microchip PIC32MX795F512L
PORTS	2 CAN Bus connectors
INTERFACE	1 Mini PCIe
DIMENSIONS	MPE-CAN: 50.59mm x 30mm (1.99" x 1.18") CAN-C: 100.1mm x 33mm (3.98" x 1.3")

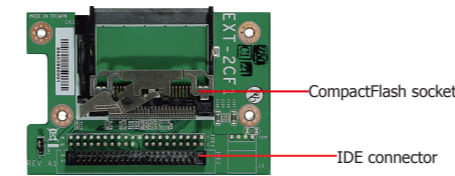
► Specifications

- CHIP**
- Microchip PIC32MX795F512L
- FEATURES**
- Designed for Car PC
 - MPE-CAN connects with CAN-C by CAN Bus cable
 - CAN Bus connectors with or without power
- REAR PANEL I/O PORTS**
- 2 DB-9 CAN Bus connectors
- INTERFACE**
- 1 Mini PCIe slot
- TEMPERATURE**
- Operating: 0°C to 60°C
 - Storage: -20°C to 85°C
- HUMIDITY**
- 5% to 90%
- DIMENSIONS**
- MPE-CAN: 50.59mm x 30mm (1.99" x 1.18")
 - CAN-C: 100.1mm x 33mm (3.98" x 1.3")

► Mechanical Drawing



EXT-2CF1



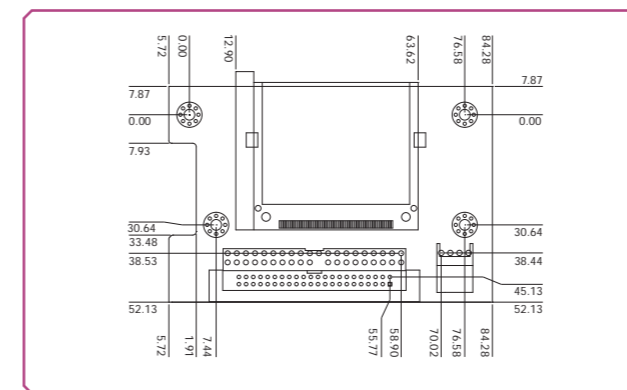
► Features

DIMENSIONS	90mm x 60mm (3.55" x 2.37")
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► Specifications

- FEATURES**
- IDE to CF Module
 - DMA mode support
- DIMENSIONS**
- 90mm x 60mm (3.55" x 2.37")

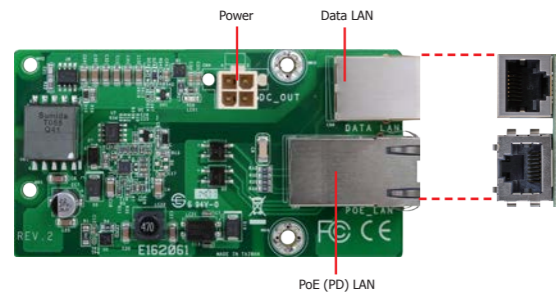
Mechanical Drawing



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 Fax: +1-505-814-5778
 Email: sales@agstech.net
 Web: http://www.agstech.net



XPD-DC12



Features

CHIP	MAX5969+MAX5974A
PORTS	1 PoE (PD) LAN port 1 Data LAN port
DIMENSIONS	100mm x 54mm (3.94" x 2.13")

Specifications

CHIP
• MAX5969+MAX5974A

- FEATURES**
- IEEE 802.3af/at powered device (PD) controller
 - IEEE 802.3at 2-event classification signaling
 - Programmable classification current
 - Flexible auxiliary power support using SHDN pin
 - Rugged 100V onboard MOSFET with 100mA inrush current limit
 - Complementary power good outputs
 - Onboard signature resistor
 - Comprehensive thermal protection
 - Undervoltage and overvoltage lockout

REAR PANEL I/O PORTS

- 1 PoE (PD) LAN port
- 1 Data LAN port

POWER CONNECTOR

- 1 4-pin power connector

POWER INPUT AND OUTPUT

- PoE signal 48V DC-in (Type 2 23.5W) and 12V output

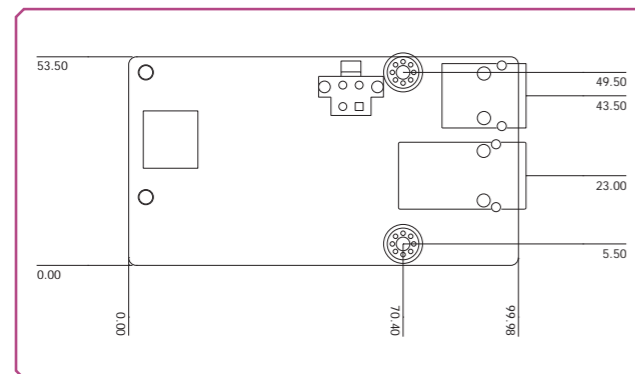
TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

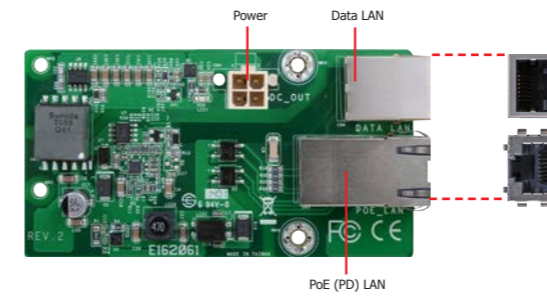
HUMIDITY

- 5% to 95%

Mechanical Drawing



XPD-DC24



Features

CHIP	MAX5969+MAX5974A
PORTS	1 PoE (PD) LAN port 1 Data LAN port
DIMENSIONS	100mm x 54mm (3.94" x 2.13")

Specifications

CHIP
• MAX5969+MAX5974A

- FEATURES**
- IEEE 802.3af/at powered device (PD) controller
 - IEEE 802.3at 2-event classification signaling
 - Programmable classification current
 - Flexible auxiliary power support using SHDN pin
 - Rugged 100V onboard MOSFET with 100mA inrush current limit
 - Complementary power good outputs
 - Onboard signature resistor
 - Comprehensive thermal protection
 - Undervoltage and overvoltage lockout

REAR PANEL I/O PORTS

- 1 PoE (PD) LAN port
- 1 Data LAN port

POWER CONNECTOR

- 1 4-pin power connector

POWER INPUT AND OUTPUT

- PoE signal 48V DC-in (Type 2 23.5W) and 24V output

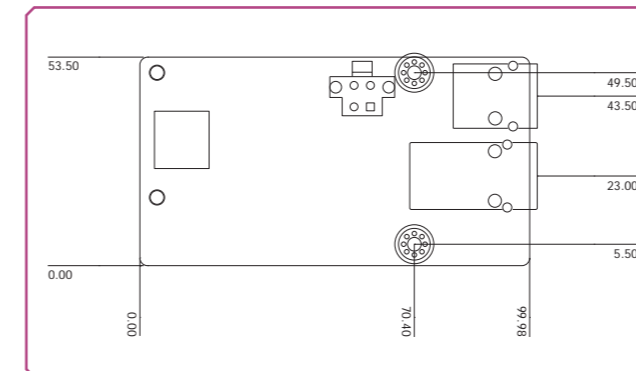
TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

HUMIDITY

- 5% to 95%

Mechanical Drawing



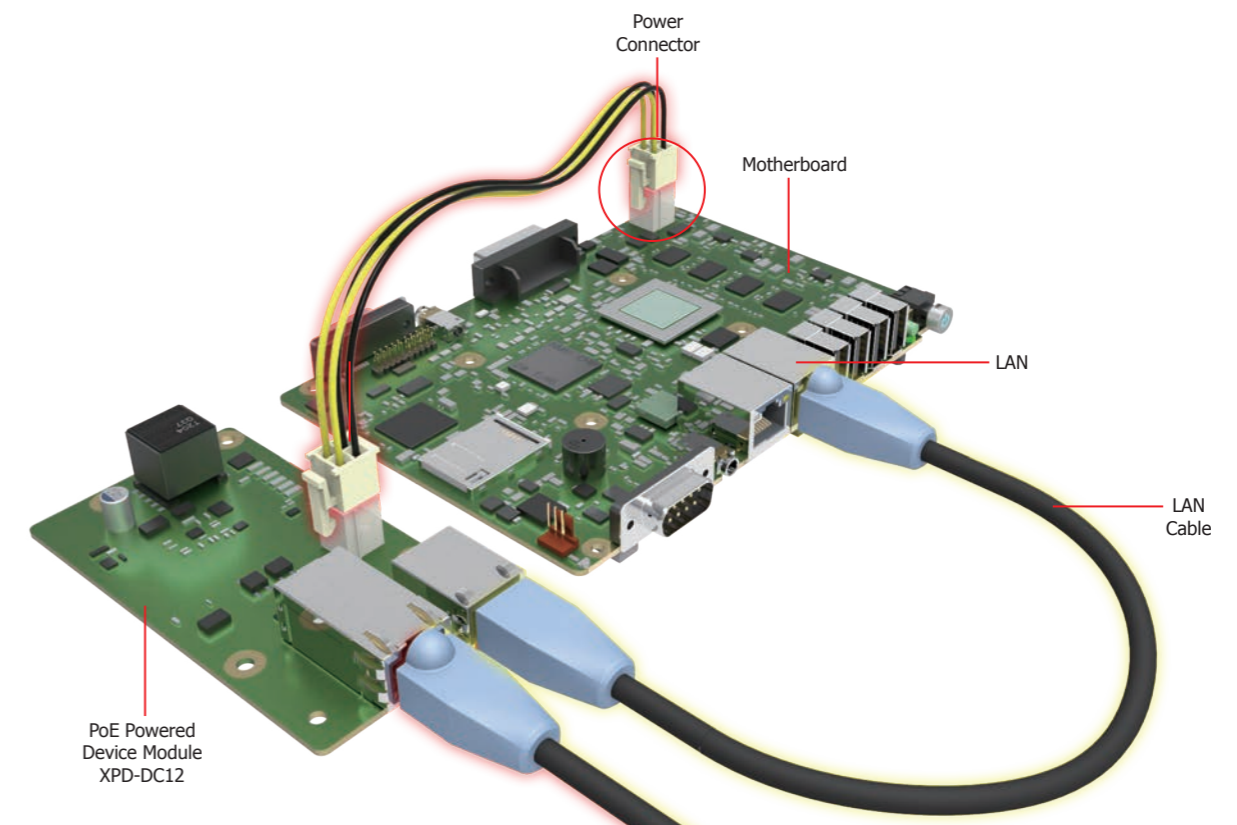
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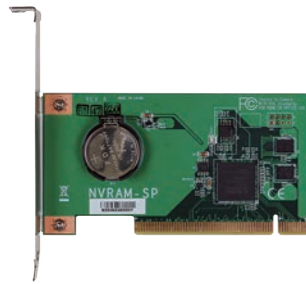
Email: sales@agstech.net

Web: <http://www.agstech.net>



Others
Peripherals

NVRAM-SP



► Features

CHIP	1M NVRAM chip: CY62146EV 4M NVRAM chip: CY62167EV
INTERFACE	PCI
DIMENSIONS	120mm x 64mm (4.72" x 2.52")

► Specifications

MODELS

- NVRAM-SP_1M
- NVRAM-SP_4M

CHIP

- XILINX SPARTAN XC3S50A
- NVRAM-SP_1M: SRAM CY62146EV
- NVRAM-SP_4M: SRAM CY62167EV

FEATURES

- The NVRAM-SP card is equipped with one Li-battery. The battery is capable of retaining data even when power supplied to the system has been disconnected.
- The Li-battery will continue to supply power to the SRAM; retaining important data for at least 10 years.
- Capable of retrieving data when power resumes or after resetting the system.

INTERFACE

- PCI 32-bit @ 33MHz

COMPATIBILITY

- PCI Local Bus Specification Rev. 2.2

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

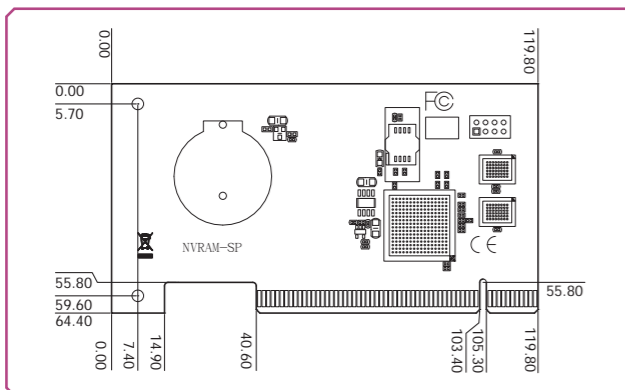
BATTERY

- One Li-battery CR2450 (600mA)

SRAM POWER CONSUMPTION

- Standby: 4.6 uA

► Mechanical Drawing



NVRAM-PCIE



► Features

CHIP	1M NVRAM chip: CY62146EV 4M NVRAM chip: CY62167EV
INTERFACE	PCIe x1
DIMENSIONS	125mm x 38mm (4.92" x 1.50")

► Specifications

MODELS

- NVRAM-PCIE_1M
- NVRAM-PCIE_4M

CHIP

- IT8893E
- XILINX SPARTAN XC3S50A
- NVRAM-SP_1M: SRAM CY62146EV
- NVRAM-SP_4M: SRAM CY62167EV

FEATURES

- The NVRAM-PCIE card is equipped with one Li-battery. The battery is capable of retaining data even when power supplied to the system has been disconnected.
- The Li-battery will continue to supply power to the SRAM; retaining important data for at least 10 years.
- Capable of retrieving data when power resumes or after resetting the system.

INTERFACE

- PCIe x1 Gen 1

COMPATIBILITY

- PCI Express

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 5% to 95%

BATTERY

- One Li-battery CR2450 (600mA)

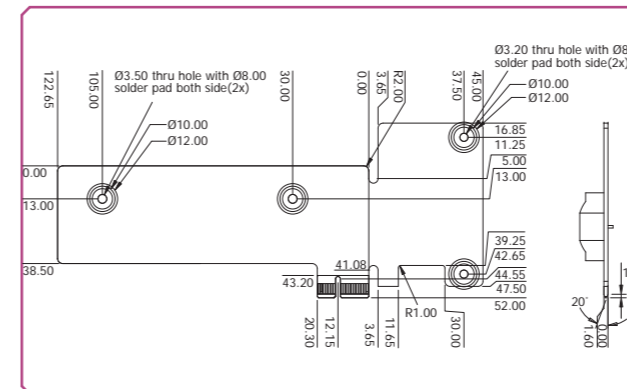
SRAM POWER CONSUMPTION

- Standby: 4.6 uA

DIMENSIONS

- 167.65mm x 68.85mm (6.60" x 2.71")

► Mechanical Drawing



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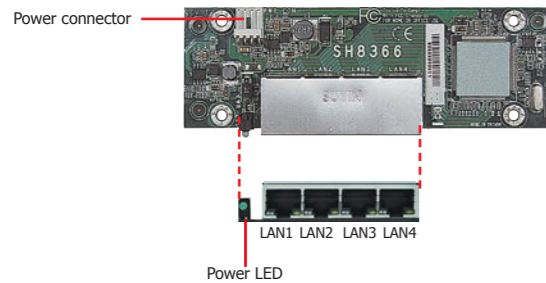
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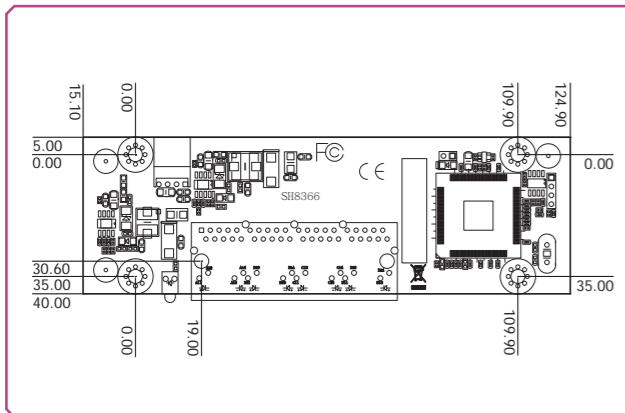
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SH8366



Mechanical Drawing



Features

CHIP	Realtek® RTL8366S
PORTS	4 Gigabit LAN
DIMENSIONS	140mm x 45mm (5.52" x 1.78")

Specifications

CHIP

- Realtek® RTL8366S

PACKET LENGTH

- Supports maximum packet length 16Kbyte jumbo frame packet forwarding and maximum packet length 9216 bytes at wire speed

VLAN

- 802.1Q VLAN supports 4096 entries
- Supports Port-based, Tag-based, and Protocol-based VLAN
- Up to 4 Protocol-based VLAN entries
- Supports per-port and per-VLAN egress VLAN tagging and untagging

IVL/SVL

- Supports 1K-entry MAC address table with 4-way hash algorithm
- Supports 8-entry CAM to avoid learning hash collisions
- Up to 8 Filtering Databases

SPANNING TREE PORT BEHAVIOR CONFIGURATION

- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Multiple Spanning Tree with up to 8 Spanning Tree instances

QUALITY OF SERVICE (QoS)

- Input bandwidth control from 64Kbps to 1Gbps (in 64Kbps steps)
- Four priority queues per port
- Per-port and per-queue Average and Peak Packet Rate control
- Scheduling supports Strict Priority (SP) and Weighted Fair Queueing (WFQ)
- IEEE 802.1p/Q and IPv4 DSCP Remarking
- Priority decision based on Port, 802.1Q VLAN tag PRI, IPv4/IPv6 DSCP, and ACL rules

SECURITY FILTERING

- Disable learning for each port
- Disable learning-table aging for each port
- Drop unknown DA for each port

32-ENTRY ACL RULES

- Search keys support Source Port, MAC, TCP, UDP, IPv6, ICMP, and IGMP format
- Actions support mirror, redirect, dropping, priority adjustment, and traffic rate policing
- Optional per-port enable/disable of ACL function
- Optional setting of per-port action to take when ACL mismatch

DIMENSIONS

- 140mm x 45mm (5.52" x 1.78")

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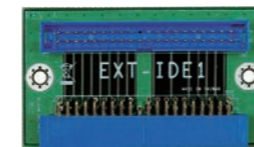
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EXT-IDE1



Features

DIMENSIONS	70mm x 40mm (2.76" x 1.58")
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Specifications

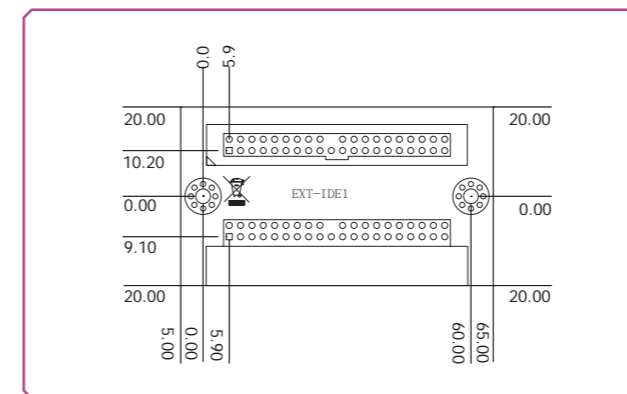
FEATURES

- Available for DOM

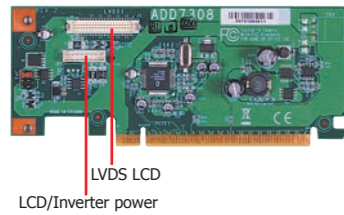
DIMENSIONS

- 70mm x 40mm (2.76" x 1.58")

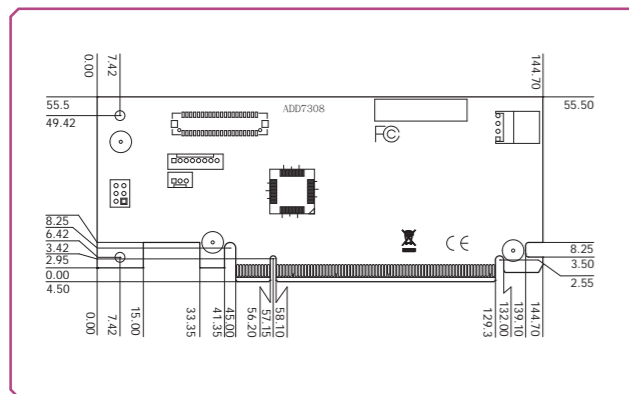
Mechanical Drawing



ADD7308



Mechanical Drawing



Features

CHIP	Chrontel CH7308B
INTERFACE	PCIe x16
PORT	1 LVDS
DIMENSIONS	145mm x 60mm (5.8" x 2.4")

Specifications

CHIP

- Chrontel CH7308B

FEATURES

- Single/Dual LVDS transmitter up to 165Mpixels/s
- LVDS low jitter PLL accepts spread spectrum input
- LVDS 18-bit and 24-bit outputs
- 2D dither engine
- Panel protection and power sequencing
- High-speed SDVO1 serial (1G~2Gbps) AC-coupled differential RGB inputs
- Low voltage interface supports graphics device
- Programmable power management
- Fully programmable through serial port
- Configuration through OpCodes1
- Supports complete Windows driver
- Supports boundary scan

TEMPERATURE

- 0°C to 60°C

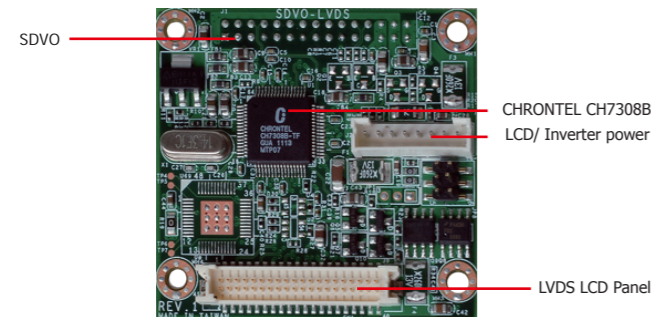
HUMIDITY

- 10% to 90%

DIMENSIONS

- 145mm x 60mm (5.7" x 2.36")

SDVO-LVDS



Features

CHIP	Chrontel CH7308B
PORT	1 LVDS
DIMENSIONS	45mm x 38mm (1.77" x 1.49")

Specifications

CHIP

- Chrontel CH7308B LVDS transmitter chip

FEATURES

- Single/Dual LVDS transmitter up to 165Mpixels/s
- LVDS low jitter PLL accepts spread spectrum input
- Supports 18/24-bit 1600x1200 LVDS panel
- Supports dimming control via hot-keys
- 2D dither engine
- Panel protection and power sequencing
- High-speed SDVO I serial (1G~2Gbps) ACcoupled differential RGB inputs
- Low voltage interface supports graphics device
- Programmable power management
- Fully programmable through OpCodes I
- Supports complete Windows driver
- Supports boundary scan

APPLIED MODELS

- SB102-D, SB300-C, SB630-CRM, SB600-C, SB601-C

TEMPERATURE

- 0°C to 60°C

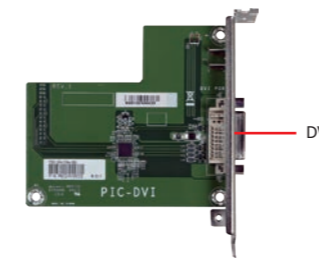
HUMIDITY

- 10% to 90%

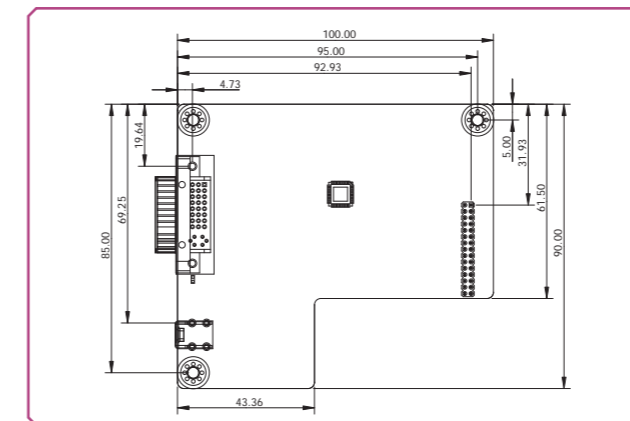
DIMENSIONS

- 45mm (1.77") x 38mm (1.49")

PIC-DVI



Mechanical Drawing



Features

CHIP	ASMedia ASM1442
PORT	1 DVI
DIMENSIONS	45mm x 38mm (1.77" x 1.49")

Specifications

CHIP

- ASMedia ASM1442

REAR I/O PORT

- One DVI port

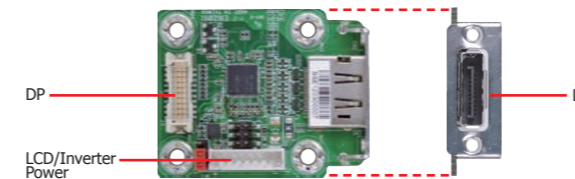
APPLIED MODEL

- PIC-H61

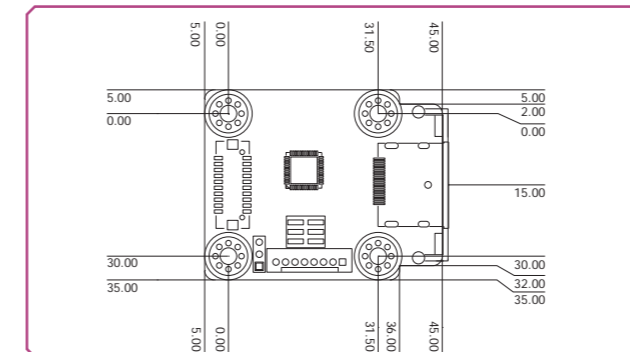
DIMENSIONS

- 100mm x 90mm (3.93" x 3.54")

EXT-DP



Mechanical Drawing



Features

CHIP	SN75DP130
PORT	1 DP
INTERFACE	DP
DIMENSIONS	50mm x 40mm (1.97" x 1.57")

Specifications

CHIP

- Re-Driver SN75DP130

FEATURES

- Supports DP v1.1a and DP v1.2 signaling including HBR Data rates to 2.7Gbps

REAR PANEL I/O PORT

- 1 DP port

I/O CONNECTORS

- 1 DP connector
- 1 LCD/Inverter power connector

APPLIED MODELS

- HU171/173, HU101/103, HM100/101/103-QM87/HM86, HD332-H81

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

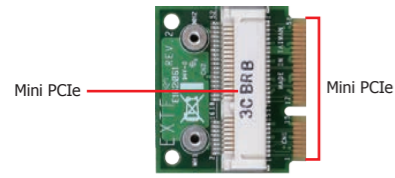
HUMIDITY

- 5% to 90%

DIMENSIONS

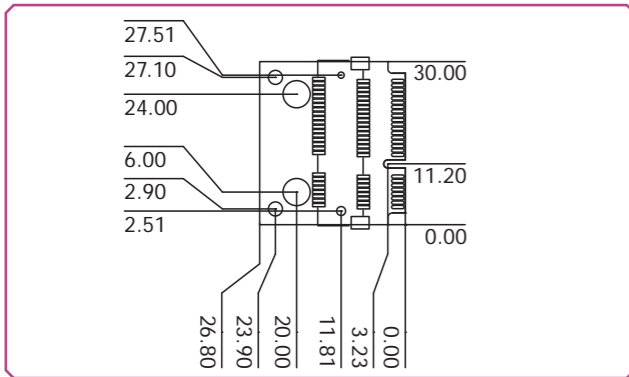
- 50mm x 40mm (1.97" x 1.57")

MPE-EXTF



Front

Mechanical Drawing



Features

EXPANSION	1 full size Mini PCIe
INTERFACE	half size Mini PCIe
DIMENSIONS	30mm x 26.8mm (1.18" x 1.06")

Specifications

FEATURES

- Supports full size Mini PCIe card

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

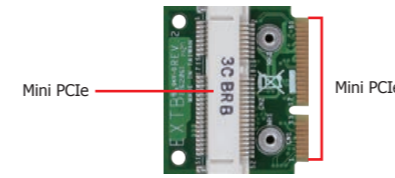
HUMIDITY

- 5% to 90%

DIMENSIONS

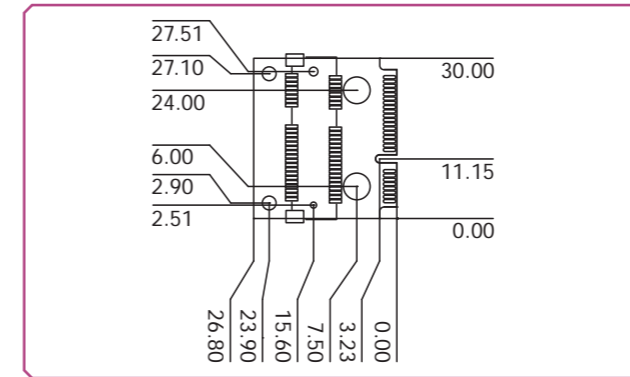
- 30mm x 26.8mm (1.18" x 1.06")

MPE-EXTB



Back

Mechanical Drawing



Features

EXPANSION	1 full size Mini PCIe
INTERFACE	half size Mini PCIe
DIMENSIONS	30mm x 26.8mm (1.18" x 1.06")

Specifications

FEATURES

- Supports full size Mini PCIe card

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

HUMIDITY

- 5% to 90%

DIMENSIONS

- 30mm x 26.8mm (1.18" x 1.06")

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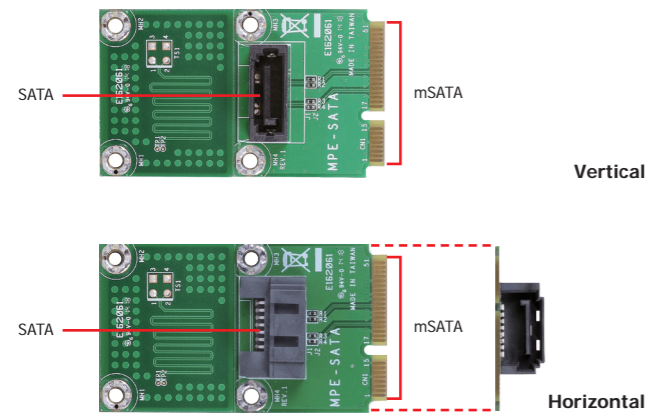
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MPE-SATA



► Features

PORT	1 SATA
INTERFACE	mSATA
DIMENSIONS	35mm x 25mm (1.38" x 0.98")

► Specifications

FEATURES

- Standard SATA interface module for mSATA to SATA connector
- Compliant with Serial ATA Advanced Host Controller Interface (AHCI)
- Supports 1 SATA port

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

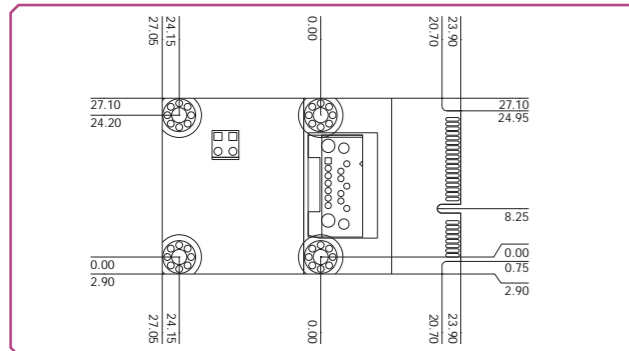
HUMIDITY

- 5% to 90%

DIMENSIONS

- 35mm x 25mm (1.38" x 0.98")

► Mechanical Drawing



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