



Your CompactPCI Manufacturer

Mapsuka, founded in 1980, has more 45 years of experience as a professional manufacturer of tooling, metal stamping and electronic assembly for telecommunications, medical, test equipment and other industries.

In 1997, Mapsuka began developing its series of CompactPCI(cPCI) components and supplying OEM front panels and PMC bezels to customers worldwide. In 2000, Mapsuka extended its CompactPCI product mix to include card rack hardware. Beyond its electro-mechanical endeavors, Mapsuka rolled out a full line of cPCI enclosures from 1U to 9U in 2003. With vast achievements as a professional engineering group and a variety of configurations within its product family, Mapsuka has gone further to provide standardized and custom cPCI platform solutions. Additionally, all of its cPCI products meet PICMG specification, IEEE 1101.10/.11, Eurocard and EMI shielding requirements.

Located in Taiwan and China, Mapsuka has the strength to provide customers with efficient service and very competitive pricing. Growing steadily, Mapsuka has been chosen by an increasing number of industry leaders throughout the world as their CompactPCI manufacturer. Choose Mapsuka as your CompactPCI partner and gain the flexibility your company needs to maintain a leading edge:

- CompactPCI / VME / PMC / AMC / uTCA Compliance
- Card Rack Hardware
- CompactPCI Chassis and Backplanes
- cPCI, VME Front Panel, Ejector Handles and PMC Bezels
- Customization



We are pleased to present this latest catalog and look forward to becoming your dependable source in the near future. Mapsuka values the opportunity of being your service provider!

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Service

Mapsuka will collaborate with you on design flexibility, manufacturability, and cost efficiency. Our service policy contains:

- Cost Saving
- Customization capabilities
- Variety type and low volume
- Rapid and accurate prototype
- Shorten manufacturing lead-time
- Continuous improvement and quality

Mapsuka's Service including: *Design and Engineering*

- Mechanical Engineering and Design
- Product design / OEM and ODM
- Structural analysis and Modeling
- Process analysis and Design
- Integration
- Rapid Prototyping
- Tooling and Fixture Engineering and Design
- Tooling and Fixture design build and validation



Manufacturing

- Stamping
- Laser Cutting
- CNC Cutting
- NC Punching
- NC Bending
- Welding
- Surface Treatment: Chromate, Anodize, Anti-contamination, Zinc plating, Nickel plating
- Coating (Powder coating & Painting)
- Overlays
- Silk-Screen
- Assembly
- Custom Packing

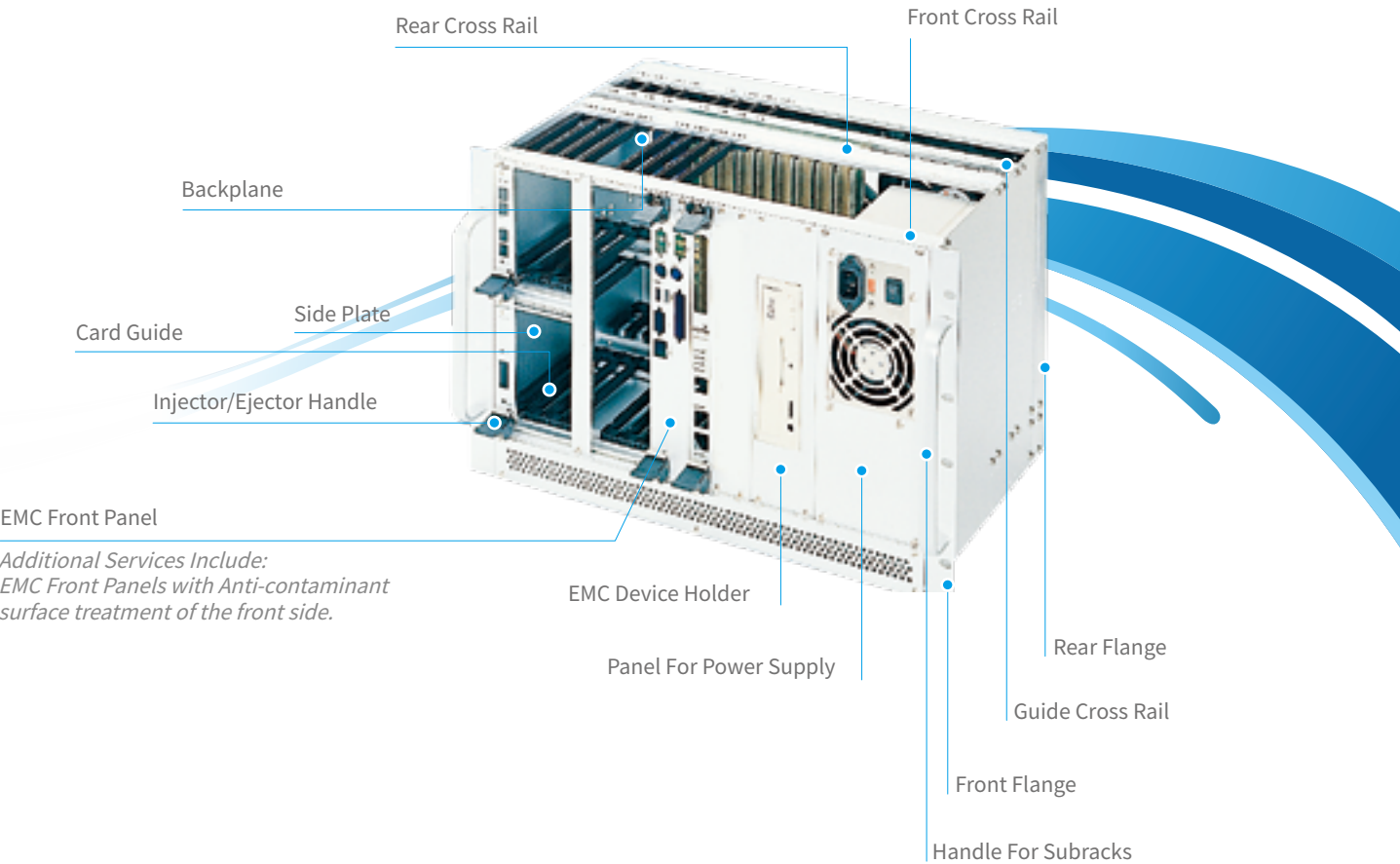


Quality Assurance: ISO9001;2008

• CompactPCI 19" Modular Chassis

Mapsuka's cPCI chassis were developed to withstand tough conditions and long service life. Some features include:

- Tool-built Construction, not NCT, to ensure precision and stability.
Utilization of lightweight, weather resistant aluminum materials that ensure:
- a. High resistance to rust/corrosion
 - b. Reduced unit weight (1/3 lighter than steel chassis)
 - c. Increased EMI/ EMC protection



• 1U - Horizontal Configuration

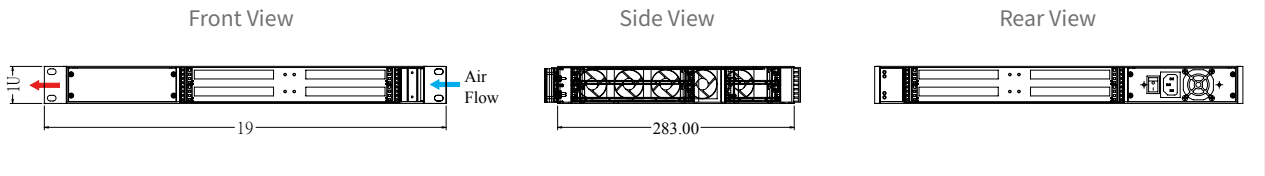
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 1U (H) x 84T (W) x 283mm (D)
- 4 fans in a pluggable 1U fan unit
- 2-slot 6U CompactPCI backplane
- Front cage: 2-slot, 6U x 160mm
- Rear I/O: 2-slot, 6U x 80mm
- 250 W ATX power supply
- Customization is available



P/N: P-184283

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	40 x 40 x 20 mm	Noise	30 dB
Backplane	2-slot 6U CompactPCI backplane(PICMG 2.16 or RCMG2.0 or 3.0 compliance)			
Power Supply ATX type	Output power	250 W		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A Frequency 50/60HZ		
	Input voltage	100 - 240 VAC	Frequency	47 - 63 Hz

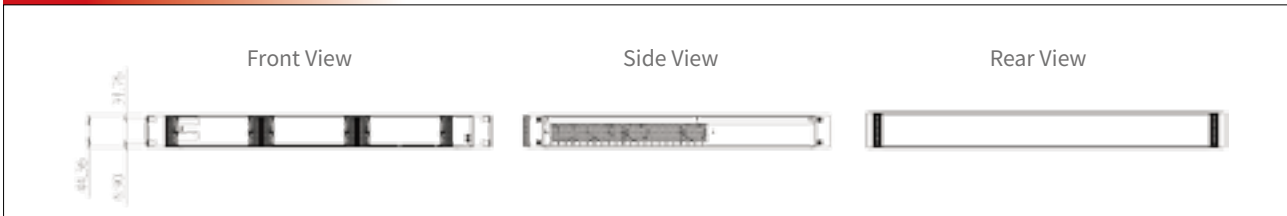
• 1U- Customized Enclosure

Features

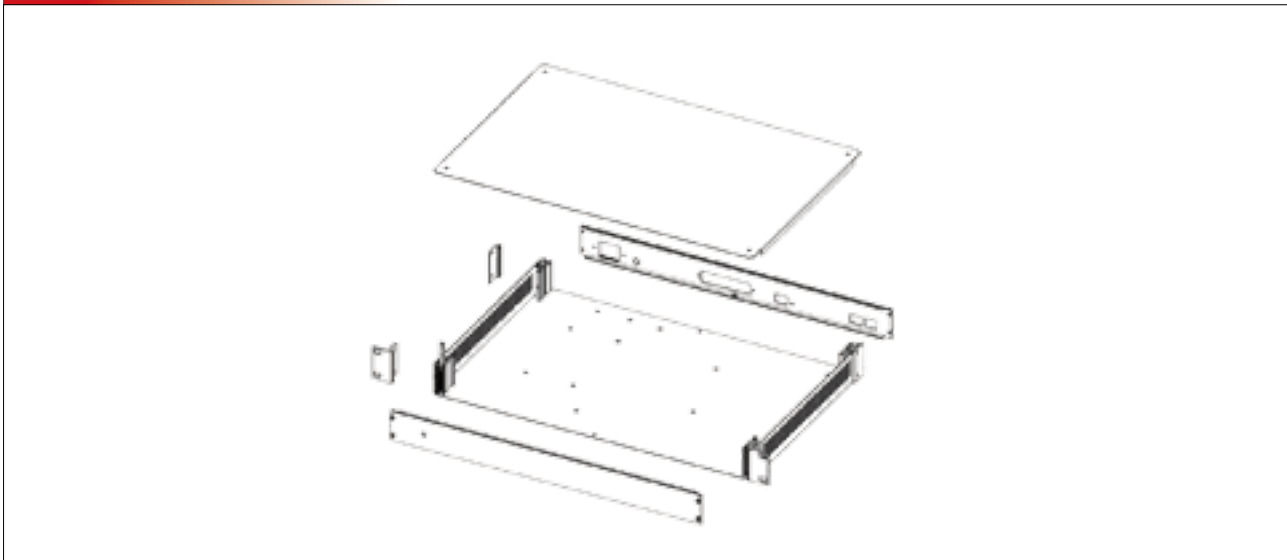
- EMC integrated system in 19" rack mount
- Aluminum enclosures
- Dimensions: 1U (H) x 84T (W) x 283mm (D)
- Customized height, width, depth are available
- Customized bottom with fasteners to fit devices, boards, etc.
- Front & rear Panels with custom cutout and silk-screening
- Customization is available



Mechanical Design



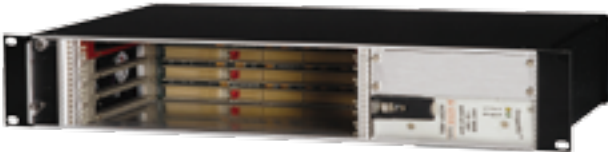
Mechanical Design



• 2U - Horizontal Configuration

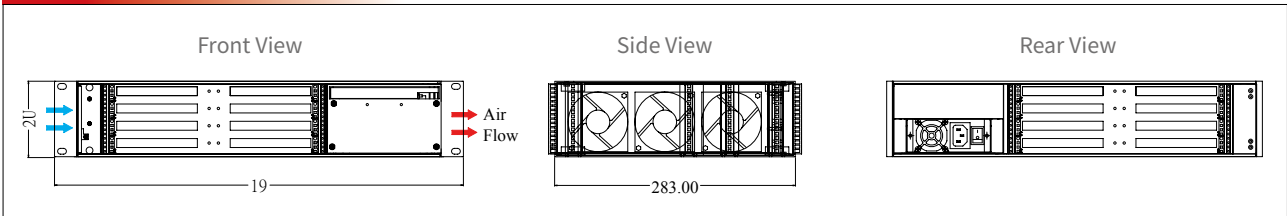
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 2U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 2U fan unit
- 4-slot 6U CompactPCI backplane
- Front cage: 4-slot, 6U x 160mm
- Rear I/O: 4-slot, 6U x 80mm
- 250 W ATX or 250 W cPCI power supply
- Option: 1 x 3.5" HDD and 1 x slim CD-ROM device holders
- Customization is available



P/N: P-284283

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	70 x 70 x 15 mm	Noise	30 dB
Backplane	4-slot 6U CompactPCI backplane(PICMG 2.16 or R1CMG2.0 or 3.0 compliance)			
Power Supply ATX type	Output power	250 W		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP Pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 3U - Vertical Configuration

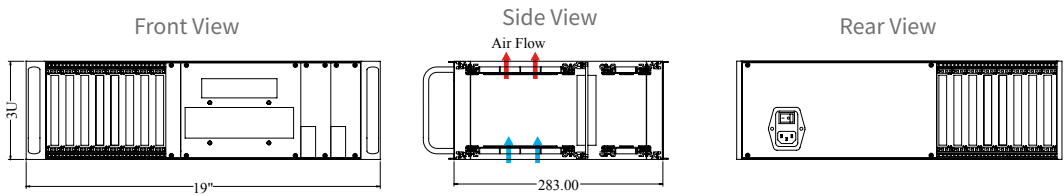
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 3U (H) x 84T (W) x 283mm (D)
- 4/6/8-slot 3U CompactPCI backplane
- Front cage: 8-slot, 3U x 160mm
- Rear I/O: 8-slot, 3U x 80mm
- 250 W ATX or 250 W cPCI power supply
- 1 x 5.25" and 1 x 3.5" device holders
- Customization is available



P/N: P-384283

Mechanical Design



Specifications

Backplane	4/6/8-slot 6U CompactPCI backplane(PICMG 2.16 or RICMG2.0R3.0 compliance)			
Power Supply ATX type	Output power	250 W		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 - 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP Pluggable)		
	Output voltage	+5V/25 A, +3.3V/18 A, +12V/5A, -12V/0.5 A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 4U - Horizontal Configuration

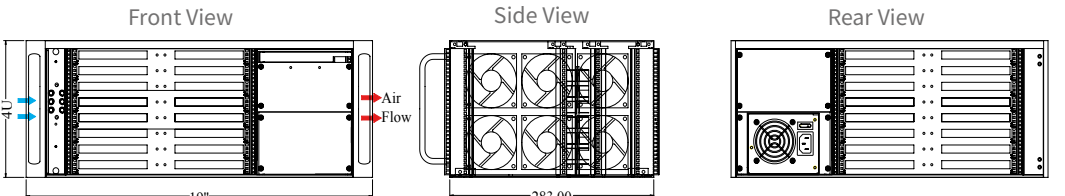
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 4U (H) x 84T (W) x 283mm (D)
- 6 fans in a pluggable 4U fan unit
- 8-slot 6U CompactPCI backplane
- Front cage: 8-slot, 6U x 160mm
- Rear I/O: 8-slot, 6U x 80mm
- 400 W ATX or 250 W cPCI power supply
- Option: 1 x 3.5" HDD and 1 x slim CD-ROM device holders
- Customization is available



P/N: P-484283-H

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	70 x 70 x 15 mm	Noise	30 dB
Backplane	8-slot 6U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP Pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 4U - Vertical Configuration,Type 1

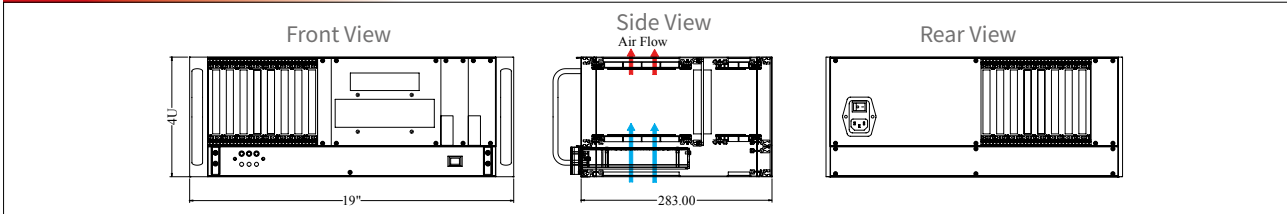
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 4U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 1 U fan unit
- 8-slot 3U CompactPCI backplane
- Front cage: 8-slot, 3U x 160mm
- Rear I/O: 8-slot, 3U x 80mm
- 250 W cPCI power supply
- 1 x 5.25" and 1 x 3.5" device holders
- Customization is available



P/N: P-484283-V1

Mechanical Design



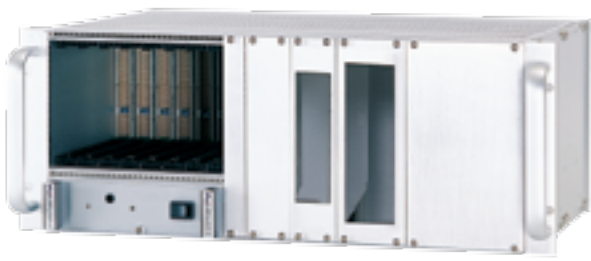
Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	39 dB
Backplane	4/6/8-slot 3U CompactPCI backplane			
Power Supply ATX type	Output power	250 W		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 4U - Vertical Configuration,Type 2

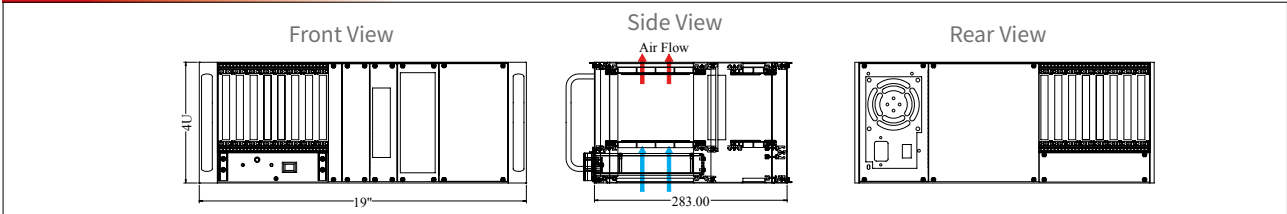
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 4U (H) x 84T (W) x 283mm (D)
- 1 fan in a pluggable 1U fan unit
- 8 -slot 3U CompactPCI backplane
- Front cage: 8-slot, 3U x 160mm
- Rear I/O: 8-slot, 3U x 80mm
- 250 W ATX power supply
- 1 x 5.25" and 1 x 3.5" device holders
- Customization is available



P/N: P-484283-V2

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	39 dB
Backplane	4/6/8-slot 3U CompactPCI backplane			
Power Supply ATX type	Output power	250 W (3U 8HP Pluggable)		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz

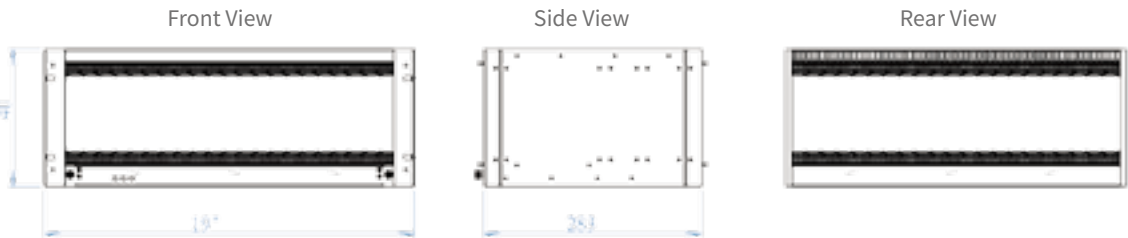
• 4U PXI Configuration

Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 4U(0.5U+3U+0.5U) (H) x 84T (W) x 283mm (D)
- 4 fans in a 16HP fan unit with Fan management
- 8 -slot 3U PXI R2.1 backplane
- Front cage: 8-slot, 3U x 160mm
- Rear I/O: 8-slot, 3U x 80mm
- 250W ATX or 250W cPCI power supply
- Customization is available



Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	39 dB
Backplane	4/6/8-slot 3U CompactPCI backplane			
Power Supply ATX type	Output power	250 W		
	Output voltage	+5V/16A, +12V1/16A, +12V2/16A, -12V/0.8A, +3.3V/16.0A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 5U - Vertical Configuration

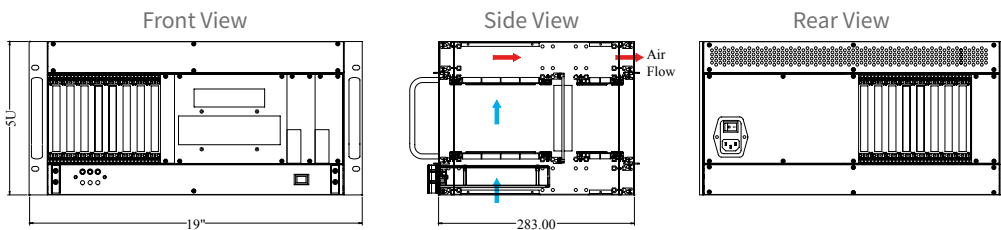
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 5U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 1U fan unit
- 8-slot 3U CompactPCI backplane
- Front cage: 8-slot, 3U x 160mm
- Rear I/O: 8-slot, 3U x 80mm
- 250W cPCI power supply
- 1 x 5.25" and 1 x 3.5" device holders
- Customization is available



P/N: P-584283

Mechanical Design



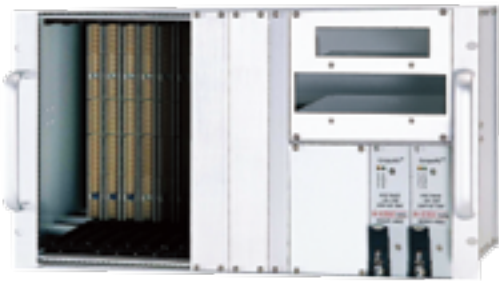
Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	39 dB
Backplane	8-slot 3U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 – 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 6U - Vertical Configuration

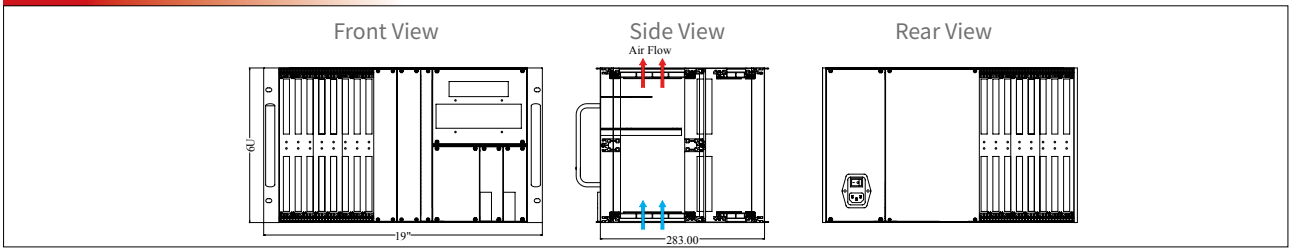
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 6U (H) x 84T (W) x 283mm (D)
- 8-slot 6U CompactPCI backplane
- Front cage: 8-slot, 6U x 160mm
- Rear I/O: 8-slot, 6U x 80mm
- 400 W ATX or 250 W / 400 W / 500 W cPCI power supply
- 1 x 5.25" and 1.35" device holders
- Customization is available



P/N: P-684283

Mechanical Design



Specifications

Backplane	8-slot 6U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 - 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz
Power Supply cPCI type	Output power	400 W (3U 8HP pluggable)		
	Output voltage	+5V/40A, +3.3V/20A, +12V/10A, -12V/3A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 7U - Vertical Configuration

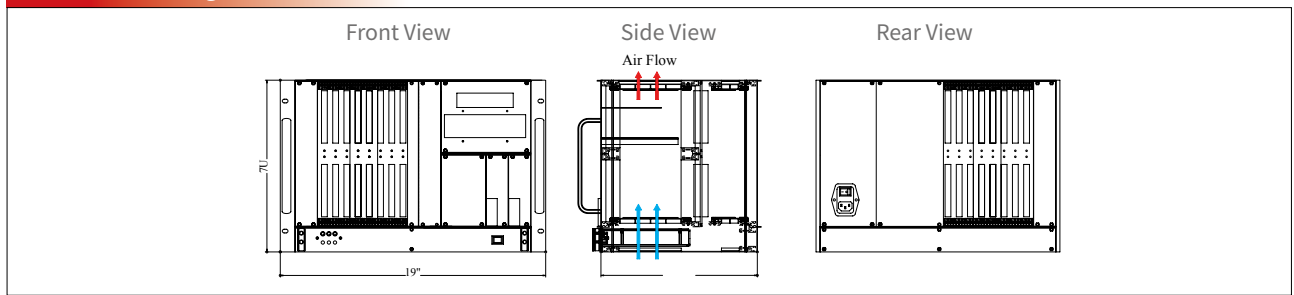
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 7U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 1 U fan unit
- 8-slot 6U CompactPCI backplane
- Front cage: 8-slot, 6U x 160mm
- Rear I/O: 8-slot, 6U x 80 mm
- 400 W ATX or 250 W / 400 W / 500 W cPCI power supply
- 1 x 5.25" and 1.35" device holders
- Customization is available



P/N: P-784283

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	39 dB
Backplane	8-slot 6U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 - 60 Hz
Power Supply cPCI type	Output power	250 W (3U 8HP pluggable)		
	Output voltage	+5V/25A, 3.3V/18A, +12V/5A, -12V/0.5A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 8U - Vertical Configuration

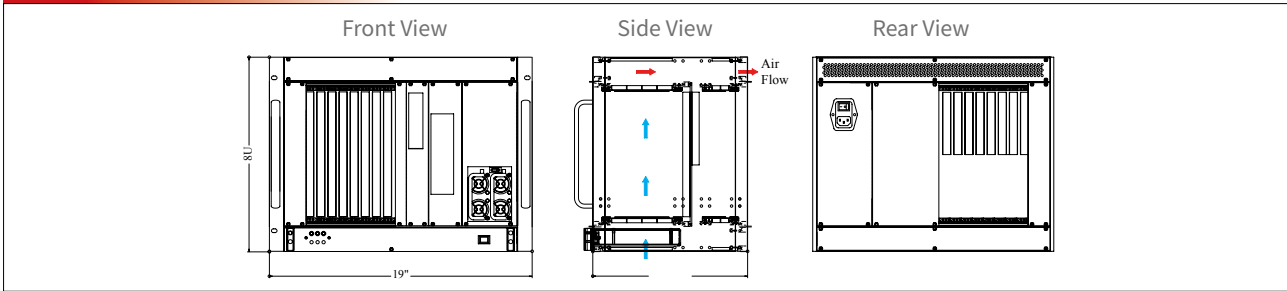
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 8U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 1 U fan unit
- 8-slot 6U CompactPCI backplane
- Front cage: 8-slot, 6U x 160mm
- Rear I/O: 8-slot, 6U x 80 mm
- 400 W ATX or 400 W cPCI power supply
- 1 x 5.25" and 2 x 3.5" device holders
- Customization is available



P/N: P-884283

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	40 dB
Backplane	8-slot 6U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 - 60 Hz
Power Supply cPCI type	Output power	400 W (6U 8HP pluggable)		
	Output voltage	+5V/40A, +3.3V/20A, +12V/10A, -12V/3A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

• 9U - Vertical Configuration

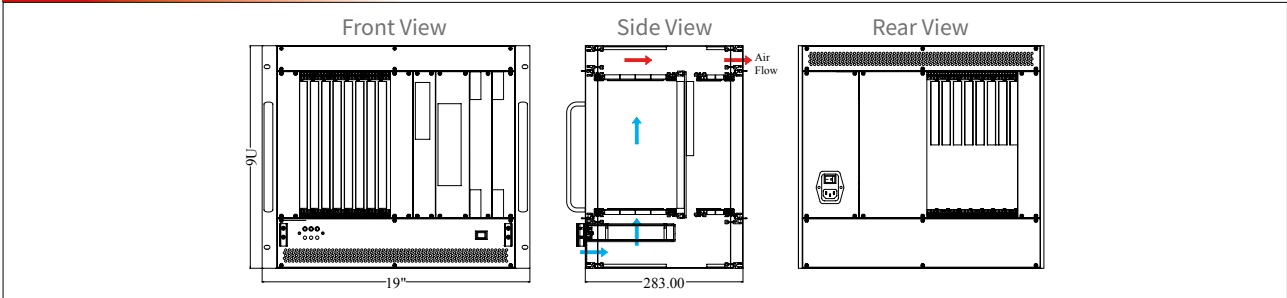
Features

- EMC integrated system in 19" rack mount
- Aluminum enclosure
- Dimension: 9U (H) x 84T (W) x 283mm (D)
- 3 fans in a pluggable 2U fan unit
- 8-slot 6U CompactPCI backplane
- Front cage: 8-slot, 6U x 160mm
- Rear I/O: 8-slot, 6U x 80 mm
- 400 W ATX or 400 W cPCI power supply
- 1 x 5.25" and 2 x 3.5" device holders
- Customization is available



P/N: P-984283

Mechanical Design



Specifications

Fan Unit	Fan Mode	Bearing type	Nominal Voltage	DC 12 V
	Dimension	120 x 120 x 25 mm	Noise	35 dB
Backplane	8-slot 6U CompactPCI backplane			
Power Supply ATX type	Output power	400 W		
	Output voltage	+5V/18A, +12V/18A, +12V2/18A, -12V/0.8A, +3.3A/18A, +5vsb/2.5A		
	Input voltage	100 - 240 VAC	Frequency	50 - 60 Hz
Power Supply cPCI type	Output power	400 W (6U 8HP Pluggable)		
	Output voltage	+5V/40A, +3.3V/20A, +12V/10A, -12V/3A		
	Input voltage	90 - 264 VAC	Frequency	47 - 63 Hz

Customized ODM / OEM Services

Struggling with 21st Century ODM/OEM Challenges?



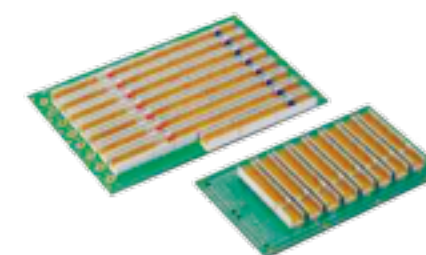
Mapsuka has committed three decades in building its ODM/OEM service and support to meet the demands of today's global economy. Mapsuka's Research Development and Design Team has enabled it to enjoy flexibility in customization of its platforms that target customer success. In addition to its design and development strengths, Mapsuka has built a comprehensive list of CompactPCI accessories and various platform configurations to virtually eliminate production burdens and efficiently meet accelerated lead times.

Fill in our "Inquiry Form" on p.44 and send back to Mapsuka to realize your full production potential! You'll be surprised how immediate a full custom design can be realized!

• PICMG 2.0R3.0

Features

- Conforms to PICMG2.0 R3.0
- Supports Hot Swap feature of PICMG 2.1 R2.0
- Conforms to PICMG 2.9 R1.0
- VI/O are user selectable to a +5V or +3.3V
- All signal line characteristic impedance are set to 65Ω
- FR4 material PCB
- 2 m/m HM connector



Specifications

U	Slots	MHz	Bit	System	P/N
3	4	33/66	32	Right	CPCI20-34VRR-32-A1
3	6	33/66	32/64	Left	PHT00-20030-06
3	6	33/66	32	Right	CPCI20R30-3U6SVR_32-A1
3	8	33/66	32/64	Left	PHT00-20030-08
3	8	33/66	32	Left	CPCI20-38VLR-32-A1
6	2	33/66	32/64	Bottom	CPCI-62HBL-A1
6	4	33/66	32	Bottom	CPCI20-64HBR_32-A1
6	4	33/66	32/64	Bottom	CPCI20-64HLB-A1
6	8	33/66	32/64	Left	CPCI20-68VLR-A1

• PICMG 2.16R1.0

Features

- Conforms to PICMG 2.16 R1.0
- Supports Hot Swap feature of PICMG 2.1 R2.0
- CompactPCI Packet Switching Backplane (CompactPCI/PSB)
- Dual PSB Topology
- Leverage IEEE 802.3-2000 1000BASE-T, providing physical and data link layers
- Physical interface at rates of 10, 100, or 1000 Mb/s on a slot-by-slot basis
- Supports full-duplex bit rates of up to 2000 Mb/s per slot
- VI/O are user selectable to a +5V or +3.3V
- All signal lines characteristic impedance are set to 65Ω



Specifications

U	Slots	MHz	Bit	System	P/N
6	2	33/66	32/64	Left	CPCI216R10U6S2-A1
6	4	33/66	32/64	Bottom	CPCI216R10U6S4HL-A2
6	4	33/36	32/64	Bottom	CPCI216U6S4HR-A2
6	8	33/66	32/64	Left	CPCI216U6S8VL-A2
6	8	33/66	32/64	Bottom	CPCI216U6S8HL-A2

• CompactPCI Power Backplanes

Features

- Conforms to PICMG 2.11 CompactPCI Specification 47-pin power interface
- Supports 3U&6U cPCI Power module
- Supports 47-pin power connectors
- Supports ATX power connector 3.
- Current sharing on +5V, +3.3V, +12V and -12V



Specifications

U	Power Module Sockets	ATX Connectors	For 3U8HP cPCI PSU	For 6U8HP cPCI PSU	P/N
3	1	1	V	--	TLIM-CPCIPWR-3U2S-A1
3	2	2	V	--	TLIM-CPCIPWR-3U4S-A1
3	3	2	V	--	TLIM-CPCIPWR-3U6S-A1

• CompactPCI Power Supply



Specifications

Model No	Output Power	Density	Input	Size
CP-HAC250	250 watt	4.6	90-264VAC	3UX8HPX160mm
CP-HAC300S	300 watt	5.7	90-264VAC	3UX8HPX160mm
CP-HAC301	300 watt	5.7	90-264VAC	3UX8HPX160mm
CP-HAC400	400 watt	3.9	90-264VAC	6UX8HPX160mm
CP-HAC500	500 watt	5.0	90-264VAC	6UX8HPX160mm
CP-HDC250	250 watt	4.58	18-36VDC 36-72VDC	3UX8HPX160mm
CP-HDC301	300 watt	7.7	36-72VDC	3UX8HPX160mm
CP-HDC350	382 watt	3.45	18-36VDC	6UX8HPX160mm
CP-HDC400	400 watt	4.01	36-72VDC	6UX8HPX160mm
CP-HDC500	500 watt	4.5	36-72VDC	6UX8HPX160mm

• Fan Units for Vertical Ventilation

Features

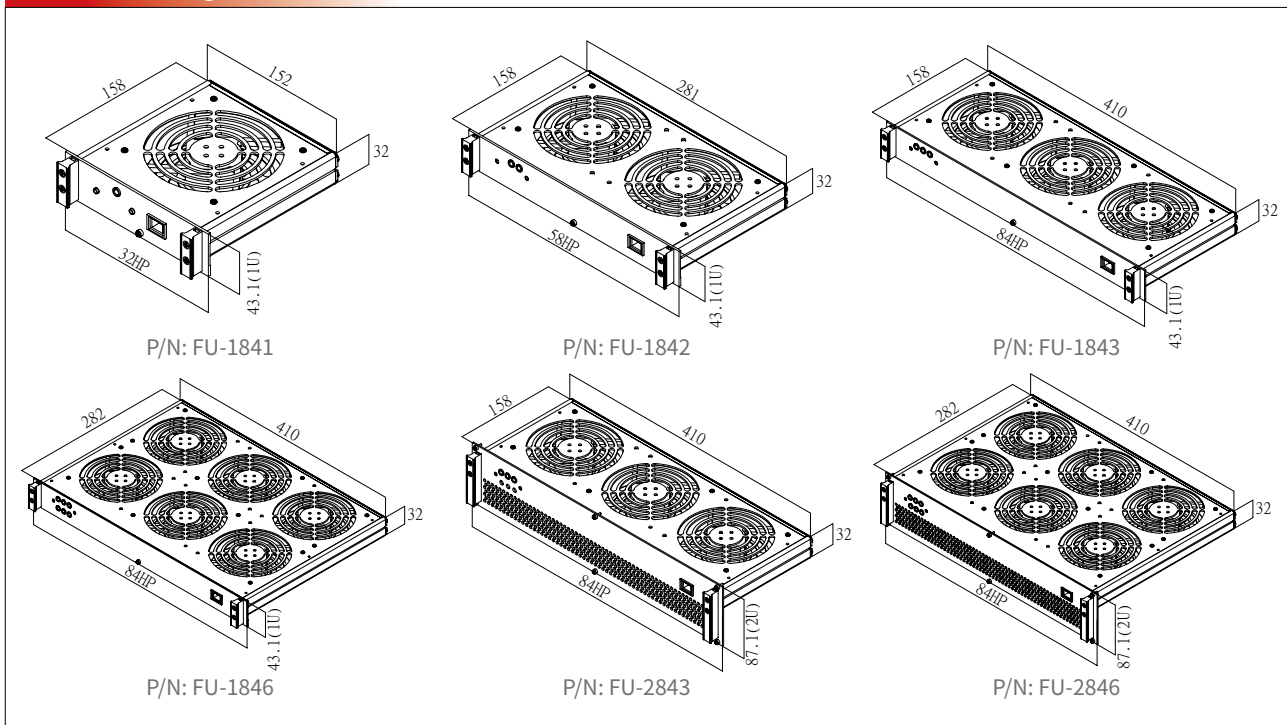
- Fan dimension: 120 mm x 120mm x 25mm
- Hot-swappable fan unit
- Low noise level
- Fan fail indication via LED
- Rapid assembly
- Aluminum case and chromate panels



Specifications

P/N	Height	Width	Depth	Fan numbers
FU-1841	1U	32HP	156mm	1
FU-1842	1U	58HP	156mm	2
FU-1843	1U	84HP	156mm	3
FU-1846	1U	84HP	280mm	6
FU-2843	2U	84HP	156mm	3
FU-2846	2U	84HP	280mm	6

Mechanical Design



• 1U Fan Unit With Subrack Assembly

Features

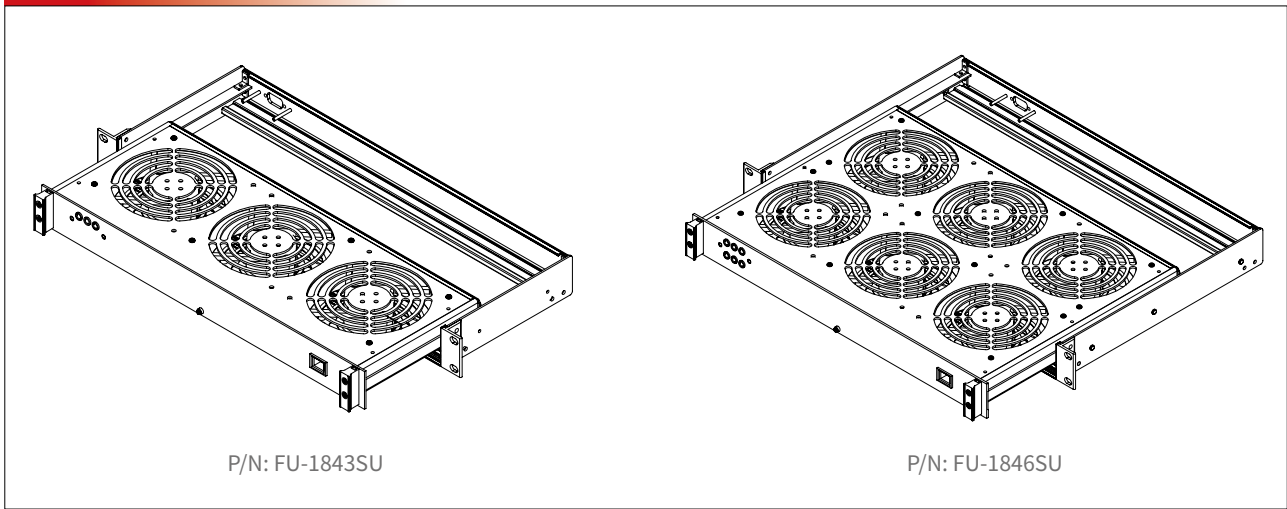
- Use when stacking multiple rack mount chassis for adding cooling
- Use in 19" rack
- Low noise level
- Fan fail indication via LED
- Input power supply DC 12V
- Aluminum frame and chromate surface



Specifications

P/N	Height	Width	Depth	Fan numbers
FU-1843SU	1U	84HP	156mm	3
FU-1846SU	1U	84HP	280mm	6

Mechanical Design



• 1U Vertical Fan Unit With Guide Frame for Mounting in 84HP Subracks.

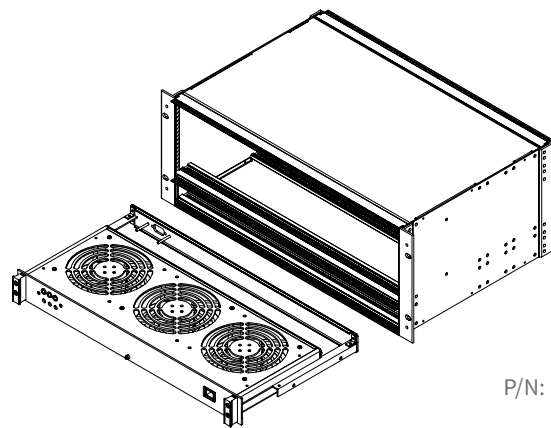
Features

- 1U panel ,3 fans
- Use in 84HP subrack
- Low noise level.
- Fan fail indication via LED
- Input power supply DC 12V
- Aluminum frame and chromate surface
- Dimensions: 1U (H) x 84HP (W) x 156 mm (D)

Specifications

P/N	Height	Width	Depth	Fan numbers
FU-1843GF	1U	84HP	156mm	3

Mechanical Design

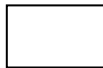
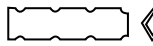


P/N: FU-1843GF



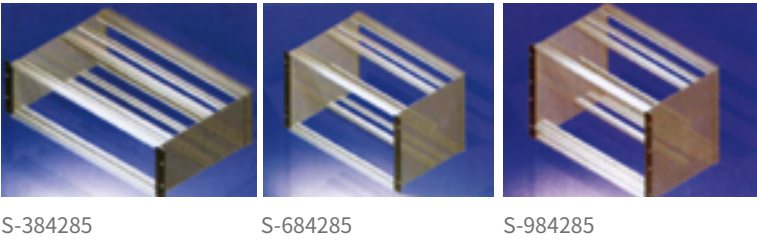
84T Subracks-Vertical

Description					
U	T	D	Version	Part No.	Consist of
3	84	185		S-384185	2A+2B+2E+2F+4G+2H+2I+2K
3	84	285		S-384285	4A+2B+2D+2E+2F+6G+2H+2I+2K
4	84	185	3+1	S-484185	2A+6B+2E+2F+8G+2H+2I+2K
4	84	285	3+1	S-484285	4A+6B+2D+2E+2F+10G+2H+2I+2K
6	84	185		S-684185	2A+2B+1C+2E+2F+6G+2H+2K+2K
6	84	285		S-684285	4A+2B+1C+2D+2E+2F+8G+2H+2I+2K
7	84	185	6+1	S-784185	2A+6B+1C+2E+2F+10G+2H+2I+2K
7	84	285	6+1	S-784285	4A+6B+1C+2D+2E+2F+12G+2H+2I+2K
9	84	185		S-984185	2A+2B+2C+2E+2F+8G+2H+2I+2K
9	84	285		S-984285	4A+2B+2C+2D+2E+2F+10G+2H+2I+2K

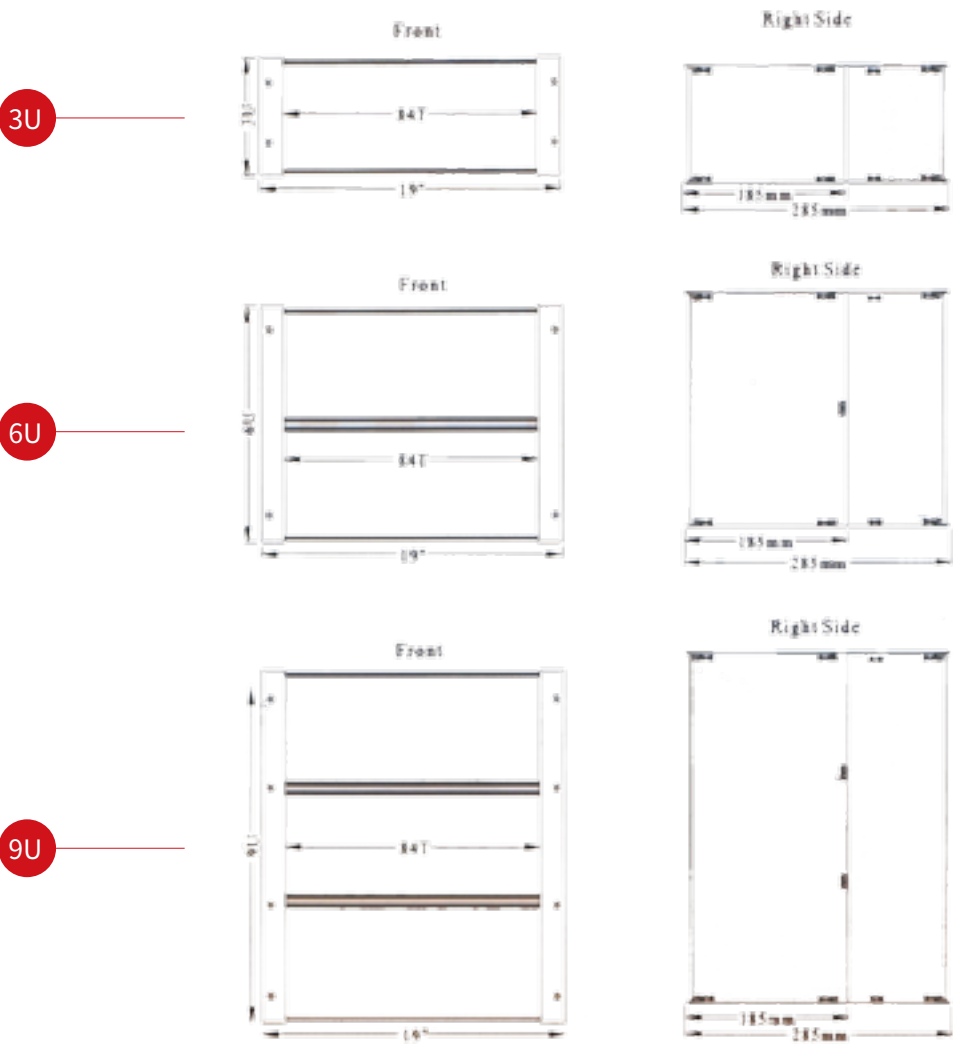
Accessories		
Description	Configuration	
Front Cross Rail		A
Rear Cross Rail		B
Center Cross Rail		C
Guide Cross Rail		D
Front Flange		E
Rear Flange		F
Tapped Strip		G
Insulating Strip		H
Side Plate		I
EMC Spring		J
Top/Button cover		K

Subrack Configurations

Specifications			
U	HP	D	Part No.
3	84	185	S-384185
3	84	285	S-384285
6	84	185	S-684185
6	84	285	S-684285
9	84	185	S-984185
9	84	285	S-984285

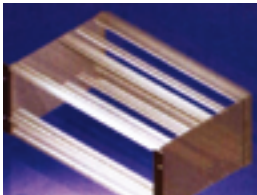


Mechanical Design

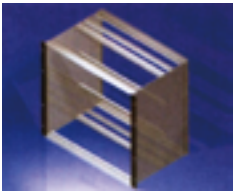


Subrack Continued

Specifications			
U	HP	D	Part No.
4	84	185	S-484185
4	84	285	S-484285
7	84	185	S-784185
7	84	285	S-784285



S-484285



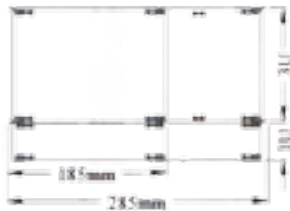
S-784285

Mechanical Design

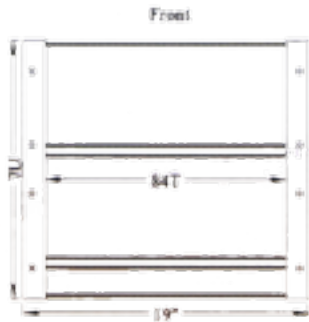
4U



Right Side



7U



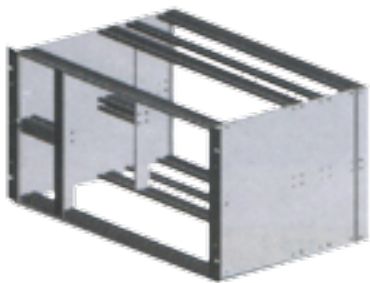
Right Side



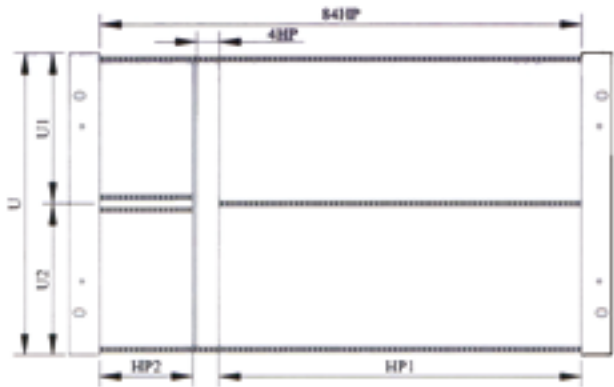
Rack Mounting Kits

For card and double card in 6U/9U subrack

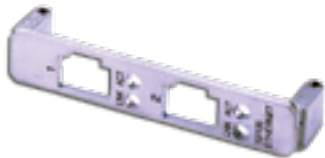
Specifications							
U	HP	U1	U2	HP1	HP2	D	Part No.
6	84	(3)	(3)	(60)	(20)	285	MK-684285A
6	84	(3)	(3)	(40)	(40)	285	MK-684285B
9	84	(6)	(3)	(60)	(20)	285	MK-984285A
9	84	(6)	(3)	(64)	(16)	285	MK-984285B



Mechanical Design



PMC Bezels



PMC Bezels

Material: Aluminum,Chem Film Class MIL-C-5541 Class 1A
Custom cutouts, silkscreen/Pad Printing or full-coverage paint available

Specifications		
Dimension(mm)	Part NO.	Packs of
71.5x12.9x12	M-001(blank)	50

Gaskets

Material: Stainless steel



Specifications		
Material	Part NO.	Packs of
stainless steel	M-002-S	50

PMC shield covers

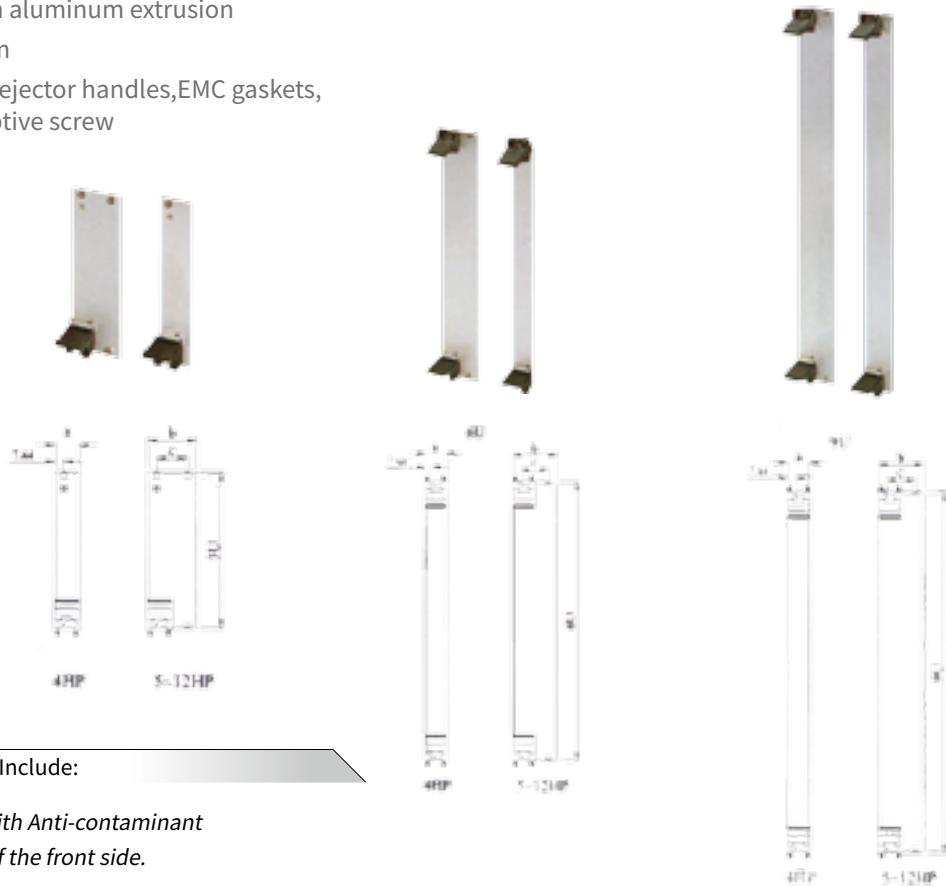
Material: Stainless steel



Specifications		
Dimension(mm)	Part NO.	Packs of
71.5x12.9x12	M-003	100

EMC Front panels(FP)

- Material:2.5mm aluminum extrusion
- Finish:Alochrom
- Includes:Panel,ejector handles,EMC gaskets, collars with captive screw



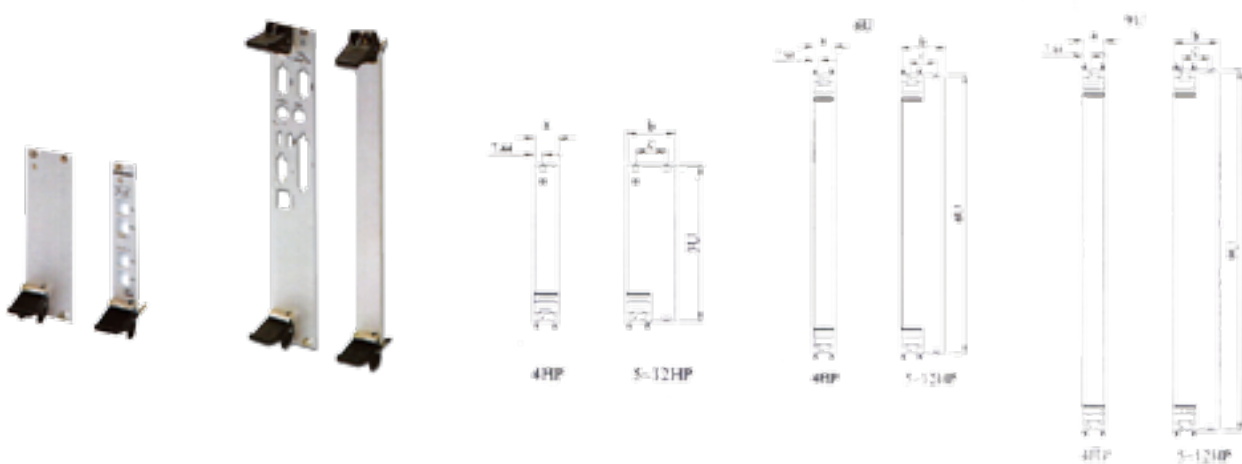
Additional Services Include:

EMC Front Panels with Anti-contaminant surface treatment of the front side.

Specifications					
U	HP	a	b	c	Part No.
3	4	20	--		FP-304A
	5	--	25.1		FP-305A
	6	--	30.1		FP-306A
	8	--	40.3	25.4	FP-308A
	12	--	60.6	45.7	FP-312A
6	4	20	--		FP-604A
	5	--	25.1		FP-605A
	6	--	30.1		FP-606A
	8	--	40.3	25.4	FP-608A
	12	--	60.6	45.7	FP-612A
9	4	20	--		FP-904A
	5	--	25.1		FP-905A
	6	--	30.1		FP-906A
	8	--	40.3	25.4	FP-908A
	12	--	60.6	45.7	FP-912A

EMC Front panels with cutout (FPC)

■ Custom cutouts and silkscreen available within 2 Weeks



Additional Services Include:

EMC Front Panels with Anti-contaminant surface treatment of the front side.

Specifications					
U	HP	a	b	c	Part No.
3	4	20	--		FP-304AC
	5	--	25.1		FP-305AC
	6	--	30.1		FP-306AC
	8	--	40.3	25.4	FP-308AC
	12	--	60.6	45.7	FP-312AC
6	4	20	--		FP-604AC
	5	--	25.1		FP-605AC
	6	--	30.1		FP-606AC
	8	--	40.3	25.4	FP-608AC
	12	--	60.6	45.7	FP-612AC
9	4	20	--		FP-904AC
	5	--	25.1		FP-905AC
	6	--	30.1		FP-906AC
	8	--	40.3	25.4	FP-908AC
	12	--	60.6	45.7	FP-912AC

EMC Front panels with micro switch(FPM)



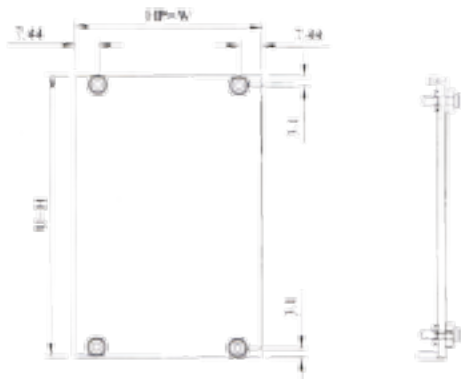
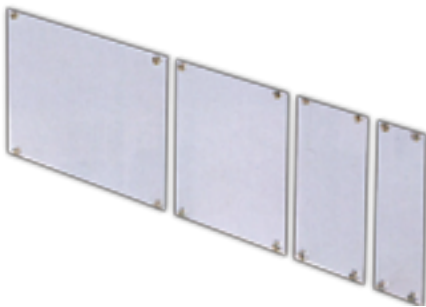
Additional Services Include:

EMC Front Panels with Anti-contaminant surface treatment of the front side.

Specifications					
U	HP	a	b	c	Part No.
3	4	20	--		FP-304-AHS
	5	--	25.1		FP-305-AHS
	6	--	30.1		FP-306-AHS
	8	--	40.3	25.4	FP-308-AHS
	12	--	60.6	45.7	FP-312-AHS
6	4	20	--		FP-604-AHS
	5	--	25.1		FP-605-AHS
	6	--	30.1		FP-606-AHS
	8	--	40.3	25.4	FP-608-AHS
	12	--	60.6	45.7	FP-612-AHS
9	4	20	--		FP-904-AHS
	5	--	25.1		FP-905-AHS
	6	--	30.1		FP-906-AHS
	8	--	40.3	25.4	FP-908-AHS
	12	--	60.6	45.7	FP-912-AHS

U-Shaped EMC Front Filler panel (FFP)

- Material:2.5mm aluminum extrusion
- Finish:Chromate Conversion Coated
- Inclusion:Panel,EMC gaskets,collars with captive screw
- Customization is available



U	3	6	9
H(m/m)	128.7	262.05	395.4

HP	2	4	5	6	8	12	16	20	24	32
H(m/m)	10.1	20	25.1	30.1	40.3	60.6	81.2	101.24	121.56	162.2

Additional Services Include:

EMC Front Panels with Anti-contaminant surface treatment of the front side.

Specifications		
U	HP	Part No.
3	2	FFP-302
	4	FFP-304
	5	FFP-305
	6	FFP-306
	8	FFP-308
	12	FFP-312
	16	FFP-316
	20	FFP-320
4	24	FFP-324
	32	FFP-332
	4	FFP-404
	5	FFP-405
	6	FFP-406
	8	FFP-408
	12	FFP-412
	20	FFP-420
	24	FFP-424
	32	FFP-432

Specifications		
U	HP	Part No.
6	2	FFP-602
	4	FFP-604
	5	FFP-605
	6	FFP-606
	8	FFP-608
	12	FFP-612
	16	FFP-616
	20	FFP-620
9	24	FFP-624
	32	FFP-632
	4	FFP-904
	5	FFP-905
	6	FFP-906
	8	FFP-908
	12	FFP-912
	20	FFP-920
	24	FFP-924
	32	FFP-932

Flat front panels (FHP)

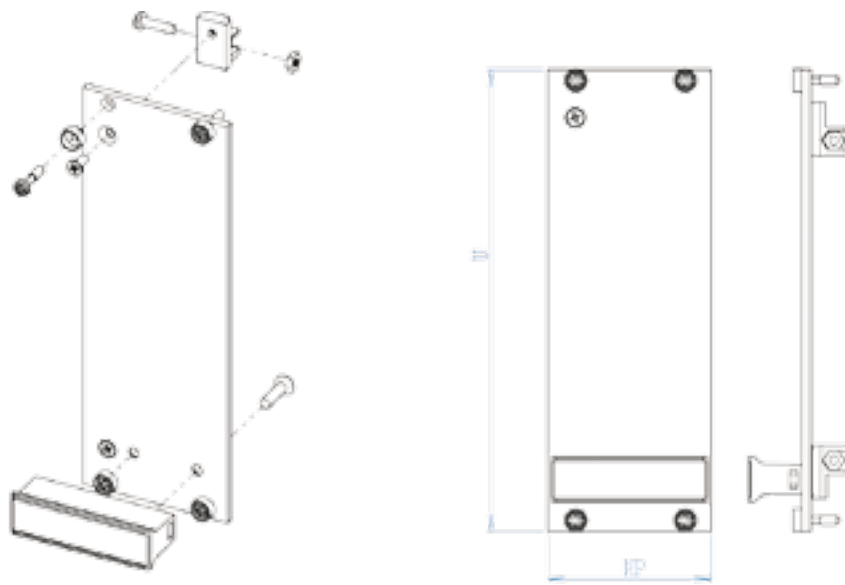
- Material: flat front panel, 2.5mm aluminum or aluminum extrusion
- Finish: Alochrom or anodized; or front anodized, rear conductive, or painted
- Includes: handles, PCB holders, collars with captive screws



U	3	6	9
H(m/m)	128.7	262.05	395.4

HP	2	4	5	6	8	12	16	20	24	32
H(m/m)	10.1	20	25.1	30.1	40.3	60.6	81.2	101.24	121.56	162.2

Mechanical Design



VME Front panels (VFP)

- Material: 2.5mm aluminum extrusion
- Finish: Alocrom or anodized; or front anodized, rear conductive, or painted
- Includes: VME ejector handles, EMC gaskets, PCB holders, collars with captive screws
Custom cutout and silk-screening available within 2 weeks

Specifications			
Description	U	HP	Part No.
Blank VME front panels	3	4	VFP-304A
	6	4	VFP-604A
VME front panel with custom cutout	3	4	VFP-304A-C
	6	4	VFP-604A-C



Specifications	
Description	Part No.
VME Bottom ejector handle	V-EHA
VME top ejector handle	V-EHB

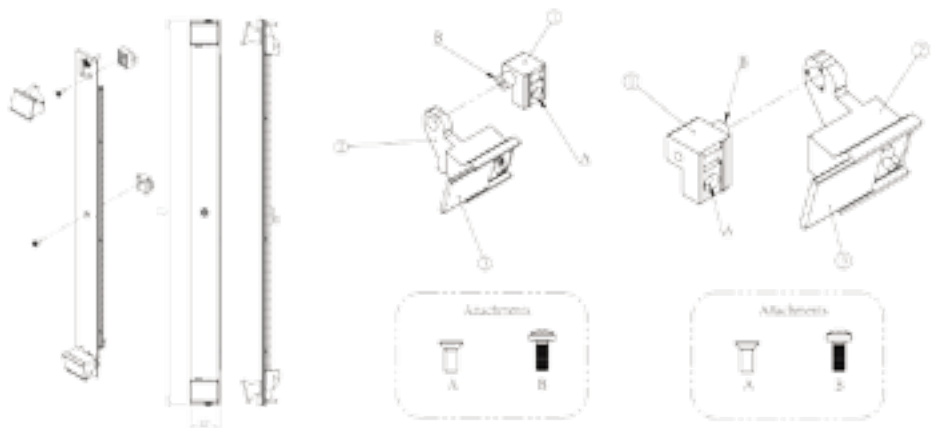


Specifications	
Description	Part No.
PCB holders for VME front panels	M-N04

Additional Services Include:

EMC front panels with Anti-contaminant surface treatment of the front side

Mechanical Design



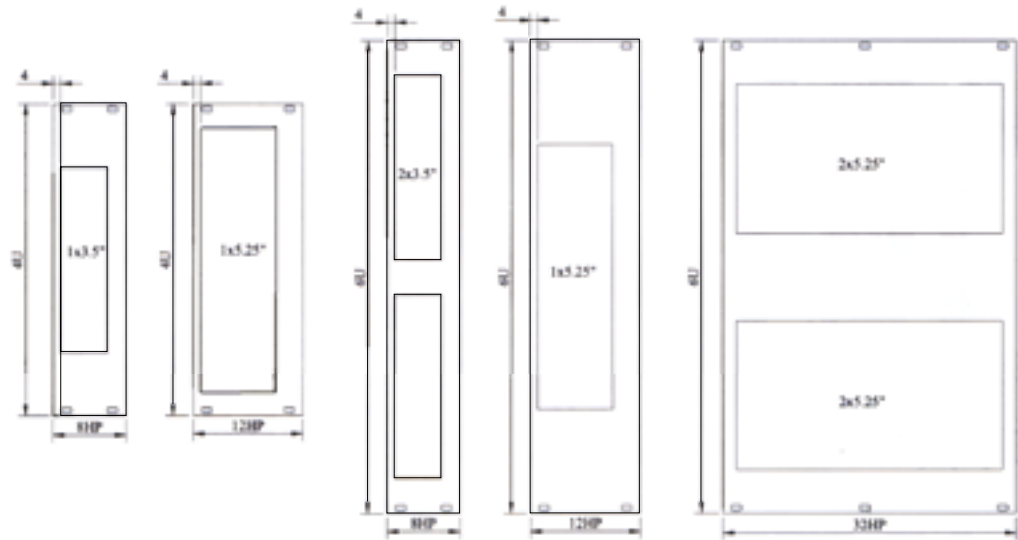
EMC Device holders

- Material: 2.5mm aluminum extrusion
- Finish: Chromate Conversion Coated
- Inclusion: Panel, drive plate, EMC gaskets, collars with captive screw.
- Customization is available



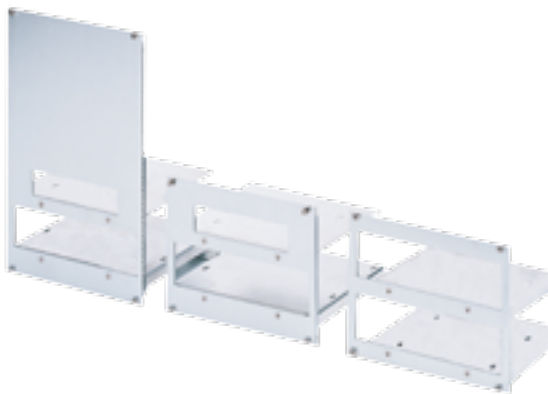
Specifications				
U	HP	Number of device	Depth of device	Part No.
4	8	1x3.5"	137mm	DH-408
4	12	1x5.25"	137mm	DH-412
6	8	2x3.5"	137mm	DH-608
6	12	1x5.25"	137mm	DH-612
6	32	4x5.25"	137mm	DH-632

Mechanical Design



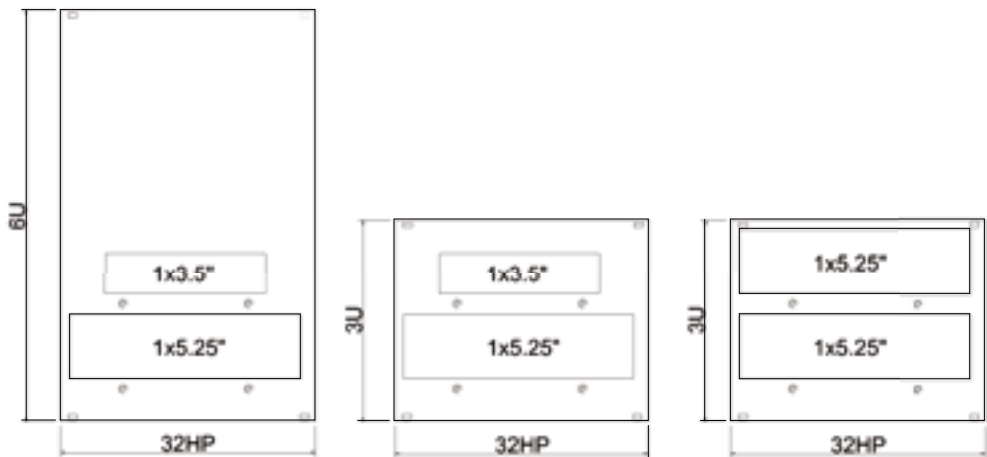
EMC Device holders

- Material:2.5mm aluminum extrusion
- Finish:Chromate Conversion Coated
- Inclusion:Panel,drive plate,EMC gaskets, collars with captive screw.
- Customization is available



Specifications				
U	HP	Number of device	Depth of device	Part No.
3	32	2x5.25"	137mm	DH-632B
3	32	1x3.25" and 1x5.25"	137mm	DH-632C
6	32	1x3.25" and 1x5.25"	137mm	DH-632D

Mechanical Design



Card Guide A (160mm)

- Card thickness 2.0mm



Dimension(mm)	Part No.	Packs of
160mm	M-CGA160	50

Card Guide A (160mm)

- Card thickness 2.0mm
- Colors: Black, gray, red, yellow, green



Dimension(mm)	Color	Part No.
160mm	Black	M-CGA160
	Gray	M-CGA160-G
	Red	M-CGA160-RE
	Yellow	M-CGA160-Y
	Green	M-CGA160-GN

Card Guide B (80mm)-Left

- Card thickness 2.0mm



Dimension(mm)	Part No.	Packs of
80mm	M-CGB80L	50

Card Guide B (80mm)-Right

- Card thickness 2.0mm



Dimension(mm)	Part No.	Packs of
80mm	M-CGB-80R	50

Card Guide C (220mm or Custom length)



Dimension(mm)	Part No.	Packs of
220mm	M-CGA220	50
Custom length: xxx (mm)	M-CGAxxx	50

Card Guide D (160mm, 220mm or Custom length)



Dimension(mm)	Part No.	Packs of
160mm	M-CGD160	50
220mm	M-CGD220	50
Custom length: xxx (mm)	M-CGDxxx	50

Card Guide for cPCI power supplies

- 160mm card guides for cPCI PSU installation.
- Custom length of aluminum extrusion is available.



Dimension(mm)	Part No.	Packs of
160mm	M-CGE160	50
Custom length: xxx (mm)	M-CGExxx	50

EMC Spring



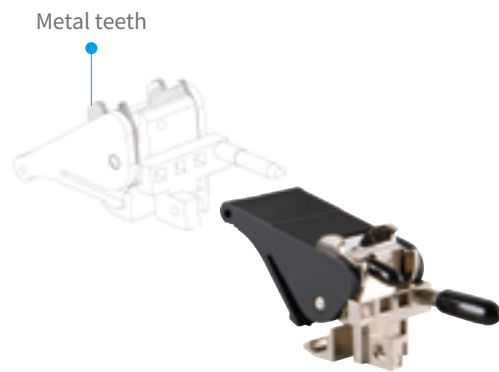
Dimension(U)	Part No.	Packs of
3	M-J03	10
6	M-J06	10

PCB Holder

- Material: ABS
- Finish:Chrome Plated



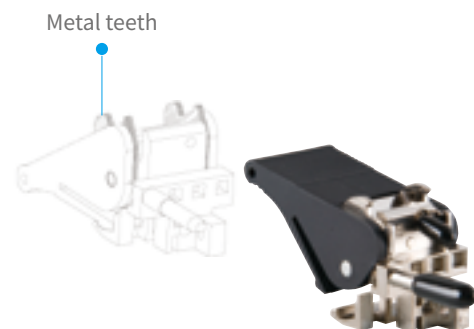
Dimension(mm)	Part No.	Packs of
15x9.1x9.7	M-N01	50
12.8x7.4x8.6	M-N02	50
11x10.1x8.6	M-N03	50
12x9x6.5	M-N04	50



New~Bottom Ejector Handle(A2)

- Patented "Metal Teeth" eliminates damages caused by repeated ejections/injections.
- Material: 1) Die-Cast block . 2) PBT handle
- Finish:Nickel plated for block

Dimension	Part No.	Packs of
without micro switch	M-EHA2	10
with microswitch	M-EHAHS2	10



New~Top Ejector Handle(B2)

- Patented "Metal Teeth" eliminates damages caused by repeated ejections/injections.
- Material: 1) Die-Cast block . 2) PBT handle
- Finish:Nickel plated for block

Dimension	Part No.	Packs of
without micro switch	M-EHB2	10
with microswitch	M-EHBHS2	10

Bottom Ejector Handle(A)

- Material: 1) Die-Cast block . 2) PBT handle
- Finish:Nickel plated for block

Dimension	Part No.	Packs of
without micro switch	M-EHA	10
with microswitch	M-EAHS	10

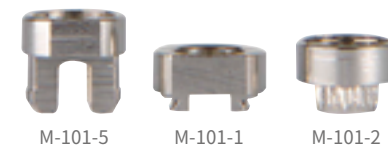
TOP Ejector Handle(B)

- Material: 1) Die-Cast block . 2) PBT handle
- Finish:Nickel plated for block

Dimension	Part No.	Packs of
without micro switch	M-EHB	10
with microswitch	M-EHBHS	10

Microswitch

Wire length(mm)	Part No.	Packs of
25.4	M-M01	50
50.8	M-M02	50



Sleeve

- Metal sleeve, brass, nickel-plated, pressed-in into front panels

Dimension(mm)	Part No.
M2.5 x 1mm	M-101-1
M2.5 x 2mm	M-102-2
M2.5 x 5mm	M-103-5

Collar Screw

- Steel, nickel-plated

Dimension(mm)	Part No.
M2.5 x 12.3mm	M-471

Front Cross Rail

- Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-A40	1
42	M-A42	1
63	M-A63	1
84	M-A84	1

Rear Cross Rail-Type A

- Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-B40A	1
42	M-B42A	1
63	M-B63A	1
84	M-B84A	1

Rear Cross Rail-Type B

- Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-B40B	1
42	M-B42B	1
63	M-B63B	1
84	M-B84B	1

Rear Cross Rail-Type C

- Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-B40C	1
42	M-B42C	1
63	M-B63C	1
84	M-B84C	1

Center Cross Rail

- Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-C40	1
42	M-C42	1
63	M-C63	1
84	M-C84	1

Guide Cross Rail

■ Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(T)	Part No.	Packs of
40	M-D40	1
42	M-D42	1
63	M-D63	1
84	M-D84	1

Front Flange

■ Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(U)	Part No.	Packs of
3	M-E03	1
4	M-E04	1
6	M-E06	1
7	M-E07	1
9	M-E09	1

Rear Flange

■ Material: Aluminum extrusion ■ Finish:Alochrom

Dimension(U)	Part No.	Packs of
3	M-F03	1
4	M-F04	1
6	M-F06	1
7	M-F07	1
9	M-F09	1

Handles for sub racks

■ Material: Aluminum extrusion ■ Finish:Anodize

Dimension(T)	Part No.	Packs of
110(for 3,5U)	M-L110	2
136(for 4,6U)	M-L136	2
190(for 7,8,9U)	M-L190	2

Tapped Strip

■ Material: CRS ■ Finish:Zinc plated
■ Custom length available

Dimension(T)	Part No.	Packs of
84	M-G84	10

Insulating Strip

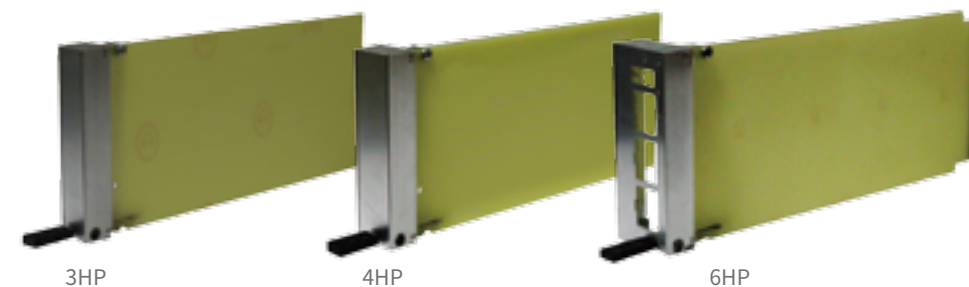
■ Material: PP ■ Custom length available

Dimension(T)	Part No.	Packs of
84	M-H84	10

• AdvancedMC(AMC) front panels

Features

- Compact, Mid and Full size in both single and double heights
- Front panels, EMC shielded, in two materials: Stainless steel, Aluminum
- Fabric over foam gasketing
- Customize surface treatment: Anodize/Chromate/Special color Anodize
- Custom cutout/silk-screening (single or multicolor)/ painted/ powder coat are available



Specifications

AMC Front Panels	Part no./Stainless	Part no./ Aluminium
Single compact, 3HP	AMCS-FP3-S	AMCS-FP3-A
Single midsize, 4HP	AMCS-FP4-S	AMCS-FP4-A
Single full size, 6HP	AMCS-FP6-S	AMCS-FP6-A
Double compact, 3HP	AMCD-FP3-S	AMCD-FP3-A
Double midsize, 4HP	AMCD-FP4-S	AMCD-FP4-A
Double full size, 6HP	AMCD-FP6-S	AMCD-FP6-A

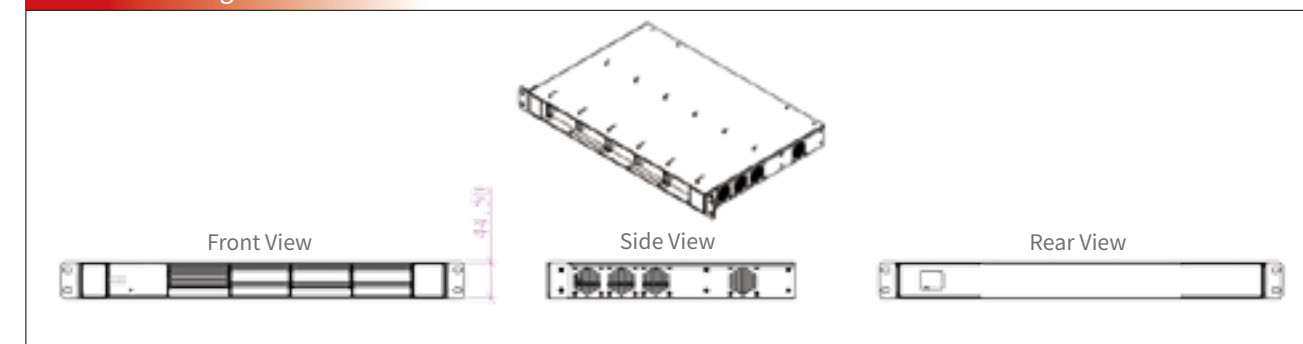
• MicroTCA Chassis / Platform

Features

- Compliant to PICMG MicroTCA Base specification
- 1 MicroTCA Carrier Hub (MCH) slot (Single Full-size)
- 6 AMC single Mid-size slots
- Dimension: 1U(H) X 19" (W) X 305mm(D)
- Aluminum enclosure
- Integrated 350W ATX power supply with wide range input
- 4~7 temperature controlled 12 VDC fans (40X40X20mm) for cooling the MicroTCA boards



Mechanical Design



INQUIRY:



Product:

☐ Standard ☐ Modification of standard product ☐ Custom integrated platform

Dimensions:

H x W x D: U x HP x mm

Number of slots:

slots ☐ 3U ☐ 6U

card depth: ☐ 160mm I/O configuration: ☐ None ☐ 80mm

CompactPCI backplane:

slots ☐ 3U ☐ 6U ☐ 9U ☐ U x mm

☐ Vertical type ☐ Horizontal

PICMG version:

☐ 32bit ☐ 64bit

☐ Standard

☐ Customization:

Power supply:

☐ ATX type ☐ cPCI plug in

Input voltage: ☐ AC/ V ☐ DC/ V

Output voltage and currents: ☐ +3.3V/ V ☐ +5.0V/ V ☐ +12V/ V

☐ -12V/ V ☐ V/ V

Ventilation:

☐ Fixed fan ☐ Hot-swappable Fan tray

Air entry: ☐ Bottom ☐ Top ☐ Front ☐ Rear ☐ Right ☐ Left

Air exit: ☐ Bottom ☐ Top ☐ Front ☐ Rear ☐ Right ☐ Left

Fan filter: ☐ Yes ☐ No

Device holder:

☐ 3.5" x (number)

☐ 5.25" x (number)

☐ others:

Finish:

☐ Chromate ☐ Painted: color ☐ other:

Other Requirements

Quantities:

units

Address:

Name

Job title

Company

Department

Web

Email

Tel

Fax

Address