

**Mini-Rack System and ClusterBoxes™**

**Models 1000R16, 1000CU2, 1000CU4, & 1000CU8**

Multiple datacom devices fit side-by-side in our mini-rack and ultra-compact ClusterBoxes!



Our miniature rack cards have a unique design: front function cards and rear interface cards that connect together on a midplane power bus. This configuration allows interface cables to remain connected while function cards are hot-swapped (and vice versa). Each mini-rack and ClusterBox has a power supply that services all cards in the chassis. You can configure the mini-rack and ClusterBoxes with a

variety of function cards (short-range modems or SRMs, fiber modems, converters, etc.) and you can mix-and-match function cards with different interface cards.



16 ports fit a wide variety of Patton products—from CSU/DSUs to short-range modems to converters.



Choose from a variety of rear interfaces: DB-25, RJ-11, RJ-45, UD-26, etc.

**FEATURES & BENEFITS**

- ✓ Multi-function—Supports interface converters, CSUs, fiber modems and virtually all Patton mini-modems.
- ✓ Hot-swappable—Replace function cards *without turning off the power*.
- ✓ Reliable—Our distributed power system gives each rack card its own power supply circuit
- ✓ Flexible—Convenient rack mount and ClusterBox versions are available to meet your needs

**SPECIFICATIONS**

**Environmental**  
 Op. Temp.: 32–122°F (0–50°C)  
 Humidity: 5–90%, non-condensing

**24 VDC Power**  
 Input Voltage: 18–36 VDC  
 Input Current: 2A Max at 18 VDC  
 Surge Protection: Triggered at 39 VDC  
 Output Voltage: 12 VAC at 2A  
 Output Power: 24 W  
 LED indicators: Power, DC Input

**48 VDC Power**  
 Input Voltage: 40–80 VDC  
 Input Current: 1A Max at 40 VDC  
 Surge Protection: Triggered at 75 VDC  
 Output Voltage: 12 VAC at 2A  
 Output Power: 24 W

**LED indicators:** Power, DC Input

**120 VAC Power**  
 Input Voltage: 100–230 VAC  
 Input Current: 400 mA  
 Output Voltage: 10 VAC at 2.4 A  
 Output Power: 24 W  
 LED indicator: Power

**220 VAC Power**  
 Input Voltage: 200–240 VAC  
 Input Current: 200 mA  
 Output Voltage: 10 VAC at 2.4 A  
 Output Power: 24 W  
 LED indicator: Power

Device type	Standalone Model	Compatible Rack Card	Rack Card (RC) Description (Configuration)	Page	Device type	Standalone Model	Compatible Rack Card	Rack Card (RC) Description (Configuration)	Page
Plug-in Short-Range Modems (SRM)	1000 Series	<b>1000RC</b>	Async SRM dual RC	79	Powered Short-Range Modems (SRM)	1050 Series	<b>1060RC</b>	115.2 Async. SRM RC	86
	1004A Series	<b>1004ARC</b>	High speed multipoint dual RC	81		1060 Series	<b>1060RC</b>	115.2 Async. SRM RC	86
	1005 Series	<b>1000RC</b>	Async SRM dual RC	79		1070 Series	<b>1070RC</b>	Sync. SRM RC	87
	1008 Series	<b>1004ARC</b>	High speed multipoint dual RC	81		1080A Series	<b>1080ARC</b>	57.6 Async./Sync. SRM RC	88
	1009 Series	<b>1000RC</b>	Async SRM dual RC	79	Fiber Modems	1110A Series	<b>1110ARC</b>	Fiber SRM RC	92
	1010B Series	<b>1010RC</b>	Trans Isolated SRM dual RC	79		1140A Series	<b>1140ARC</b>	Fiber Optic Modem w/V.54 Diagnostics	92
	1010R Series	<b>1010RC</b>	Trans Isolated SRM dual RC	79	Converters & Modem Eliminators	1205 Series	<b>1205RC</b>	V.35 Sync. Modem Eliminator RC	91
	1012A Series	<b>1012ARC</b>	Async., multipoint SRM dual RC	82		1206 Series	<b>1206RC</b>	X.21 Sync. Modem Eliminator RC	91
	1015 Series	<b>1000RC</b>	Async SRM dual RC	79		2020 Series	<b>2020RC</b>	CCITT V.35 to RS-232 Converter RC	50
	1016 Series	<b>1010RC</b>	Trans Isolated SRM dual RC	79		2016 Series	<b>2066RC</b>	CCITT V.35 to X.21 Converter w/Buffer	49
	1017 Series	<b>1010RC</b>	Trans Isolated SRM dual RC	79		2085 Series	<b>2085RC</b>	RS-232 to RS-485 Converter dual RC	54
	1018 Series	<b>1018RC</b>	SLIP/PPP SRM RC	85		2089 Series	<b>2085RC</b>	RS-232 to RS-485 Converter dual RC	54
	1019 Series	<b>1010RC</b>	Trans Isolated SRM dual RC	79		222N Series	<b>222NRC</b>	RS-232 to RS-422 Converter dual RC	56
	1020 Series	<b>1080ARC</b>	57.6 Async./Sync. SRM RC	88		222N9 Series	<b>222NRC</b>	RS-232 to RS-422 Converter dual RC	56
	1025 Series	<b>1080ARC</b>	57.6 Async./Sync. SRM RC	88		2703 Series	<b>2703RC</b>	2 Mbps G.703 Modem Access Converter	41
	1030 Series	<b>1080ARC</b>	57.6 Async./Sync. SRM RC	88					
1035 Series	<b>1045RC</b>	32, 56 & 64 kbps Async./Sync. SRM RC	85						
1040 Series	<b>1080ARC</b>	57.6 Async./Sync. SRM RC	88						
1045 Series	<b>1045RC</b>	32, 56 & 64 kbps Async./Sync. SRM RC	85						



**1000CU2**—Our 2-Slot ClusterBox™ has about the same footprint as a standalone box, but gives you the flexibility of a rack.



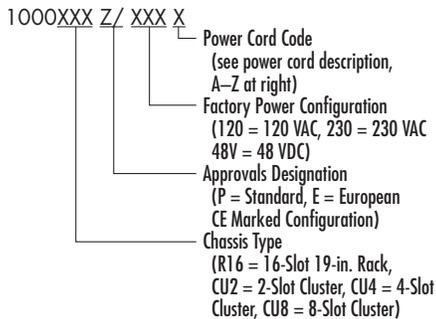
**1000CU4**—Our 4-slot ClusterBox™ is perfect for an office or workgroup connection. It services four to eight devices



**1000CU8**—When you don't need a full rack, our 8-slot ClusterBox™ gives you the power of up to 16 short hauls or converters in a single enclosure.

**ORDERING INFORMATION**

**Factory part number encoding**



**Pre-Configured Rack Assemblies**

**Example 19-in. 2U rack chassis**

**1000R16P/120K:** 120 VAC power module (includes power cord for U.S.A.)

**1000R16E/230D:** CE compliant, 230 VAC power module (includes power cord for U.K.)

**1000R16P/230G:** 230 VAC power module (includes power cord for India)

**1000R16P/48V:** 48 VDC Power Supply

**1000R16P/24V:** 24 VDC Power Supply

**Example Desktop ClusterBoxes™**

**1000CU2P/120K:** 2-Slot Cluster Unit with 120 VAC power module (includes power cord for U.S.A.)

**1000CU2E/230D:** 2-Slot Cluster Unit with CE compliant, 230 VAC power module (includes power cord for U.K.)

**1000CU2P/48V:** 2-Slot Cluster Unit with 48 VDC Power Supply

**Rack System Parts**

**Empty Rack**

**1000R16P:** 19-in. 16-Slot Rack Chassis Sub-Assembly

**Empty Cluster Chassis**

**1000CU2:** ClusterBox-II 2-Slot Desktop Cluster Sub-Assembly

**1000CU4:** ClusterBox-IV 4-Slot Desktop Cluster Sub-Assembly

**1000CU8:** ClusterBox-VIII 8-Slot Desktop Cluster Sub-Assembly

**Rear Power Entry Modules**

**1000RPEM-DC:** DC Rear Power Entry Module

**1000RPEM-RDC:** DC Redundant Rear Power Entry Module

**1000RPEM:** Standard 120/230 VAC Rear Power Entry Module

**1000RPEM-V:** CE Compliant 120/240 VAC Rear Power Entry Module

**Front Power Supply Modules**

**1000RPSM-2:** 120/230 VAC Front Power Supply Module

**1000RPSM-V:** CE Compliant Front Power Supply Module

**1000RPSM-48A:** 48 VDC Front Power Supply Module

**1000RPSM-R48A:** 48 VDC Redundant Front Power Supply Module (2 Required)

**1000RPSM-24A:** 24 VDC Front Power Supply Module

**1000RPSM-12A:** 12 VDC Front Power Supply Module

**Power cord sets**

**0805US:** "K" American Power Cord

**0805EUR:** "A" European Power Cord CEE 7

**0805UK:** "D" United Kingdom Power Cord

**0805AUS:** "C" Australia Power Cord

**0805DEN:** "E" Denmark Power Cord

**0805FR:** "F" France/Belgium Power Cord

**0805IN:** "G" India Power Cord

**0805IS:** "H" Israel Power Cord

**0805JAP:** "J" Japan Power Cord

**0805SW:** "L" Switzerland Power Cord

**Spare parts, hardware, fuses, panels**

**05R16FPB1:** Single-width Blank Front Panel

**05R16FPB4:** 4-Slot-Wide Blank Front Panel

**05R16RPB1:** Single-Width Blank Rear Panel

**05R16RPB4:** 4-Slot-Wide Blank Rear Panel

**0821R4:** Fuse, 0.4A (5x20mm)

**0821R2:** Fuse, 0.2A (5x20mm)

**056S1:** 16 #4 pan head screws & washers



*I'm Brian, one of Patton's Product Validation Engineers who makes sure your mini-rack product works reliably. To buy one of these state-of-the-art devices, call +1 301.975.1000 or send e-mail to sales@patton.com.*

**10 and 2-Slot Universal Mounting Panels**

**Models 1001MP10 & 1001MP2**

Rack, stack, and organize up to 10 Patton devices with these multi-functional mounting panels.



Model 1001MP10

The Model 1001MP10 Universal Mounting Panel offers the ability to rack up to 10 Patton products side by side. Products that are compatible with the 1001MP10 and 1001MP2 include Ethernet Extenders, xDSL modems, short range modems, NTUs, and much more!



Model 1001MP2

The Model 1001MP10's sturdy 4U design easily installs into any standard 19-inch rack. A combination of a unique groove system and an easily installed back panel enables the 1001MP10 to securely lock the individual Patton modems and their power supplies. For lower density applications, the Model 1001MP2 offers a 1.5U-high, 2-slot panel.



1001MP10 rear view

10 rear slots for device power supplies

The Model 1001MP series offers a convenient method for converting your favorite Patton standalone product into a rack-mounted solution.

**FEATURES & BENEFITS**

- ✓ **Multi-Functionality**— Supports NTUs, xDSL Modems, Short Range Modems, and Ethernet Extenders.
- ✓ **Independent Slots**— Up to 10 independently operating slots to completely do away with any single point of failures.
- ✓ **Rackmount**— Both Universal Mounting Panels fit into any 19-in. rack. The 10-slot panel is only 4U (7 in./17.78 cm) high. The 2-slot is 1.5U (2.63 in./6.68 cm) high.
- ✓ **Cost-Effective**— Rack-mount products you have already purchased.

*I'm John, one of Patton's Product Group Managers. If you do not find what you need at [www.patton.com](http://www.patton.com) or in this catalog please call me at +1 301.975.1000, x160. You can also send e-mail to [jgrant@patton.com](mailto:jgrant@patton.com).*

**Patton Product Compatibility Table**

xDSL Modems	E1/T1 Network Extenders	E1/T1 NTU	Ethernet Extenders	Serial Short-Range Modems
<b>1082:</b> iDSL Modem	<b>2113:</b> T-Link E1 Extender	<b>2701 Series:</b> G.703/G.704 FE1/E1 NTU	<b>2155:</b> 144 kbps CopperLink Extender	<b>1060:</b> RS-232 115.2 kbps Asynchronous SRM
<b>3088:</b> G.SHDSL Modem	<b>2115:</b> T-Link T1 Extender	<b>2707 Series:</b> G.703 Clear Channel E1 NTU	<b>2156:</b> 2.3 Mbps CopperLink Extender	<b>1070:</b> RS-232 19.2 kbps Synchronous SRM
<b>3201:</b> 2.3 Mbps G.SHDSL Router		<b>2720 Series:</b> T1/FT1 NTU	<b>2157:</b> 4.6 Mbps CopperLink Extender	<b>1080A:</b> RS-232 57.6 kbps Async/Sync SRM
<b>3241:</b> 4.6 Mbps G.SHDSL Router			<b>2158:</b> 10 Mbps CopperLink Extender	<b>1080A-64:</b> RS-232 64 kbps Async/Sync SRM
<b>1068:</b> VDSL Modem			<b>2168:</b> 16 Mbps CopperLink Extender	<b>1226:</b> Parallel 115.2 kbps SRM
			<b>2172:</b> 50 Mbps CopperLink Extender	<b>1075:</b> X.21 64 kbps Sync SRM
				<b>1226:</b> RS-232 38.4 kbps Async SRM

**SPECIFICATIONS**

**1001MP10**

**Front Panel:** 10 independently operating slots  
**Dimensions:** 19 L x 6.75 W x 7 H in. (48.3 L x 17.15 W x 17.78 H cm)  
**Weight:** 4.15 lbs (1.90 kg)

**1001MP2**

**Front Panel:** 2 independently operating slots  
**Dimensions:** 19.0 W x 2.63 H x 1.9 D in. (48.3 W x 6.68 H x 4.8 D cm)  
**Weight:** 2 lbs (0.95 kg)

**ORDERING INFORMATION**

- 1001MP2:** 19-in. Horizontal 2-Slot Rack
- 1001MP10:** 19-in. Vertical 10-Slot Rack

## 16-Slot Universal Mounting Panel

### Model 1001MP16

Rack, stack, and organize with Patton's Multi-Functional Universal Mounting Panel. Rack up to 16 Patton MicroPak Devices into a dense 2U solution.



Rack-Mount any of Patton's MicroPak Products

### FEATURES & BENEFITS

- ✓ Mount any MicroPak—Supports media converters, terminal servers, Ethernet bridges, fiber modems, CSU/DSUs, interface converters, short haul modems, and surge protectors
- ✓ Low Profile-2U High—Universal Mounting Panel is only 2U (3.5 in. or 8.9 cm) high and holds up to 16 MicroPaks; Installs quickly into any standard 19 inch rack
- ✓ Dry-erase label blocks and port identification numbers for easy circuit identification
- ✓ Cost Effective—Adapt Patton MicroPak products you already own for use in a standard 19 inch rack, thereby eliminating the expense of upgrading to rack-mounted equipment

The Model 1001MP16 Universal Mounting Panel offers the ability to rack-mount any of Patton's MicroPak products side-by-side. Products that are compatible with the 1001MP16 include Device servers, Media converters, Ethernet bridges, Fiber modems, Interface converters, and many more!



The sturdy 2U design of the 1001MP16 enables quick and hassle-free installation into any standard 19-inch rack. The 1001MP16's unique bracket-and-groove mounting system enables Patton MicroPak cases to be mounted securely into the panel. Dry-erase labels and individually numbered ports are provided for easy circuit/port identification.

The Model 1001MP16 provides an economical method for converting your favorite Patton standalone MicroPak products into a customized rack-mounted solution.



Unique bracket-and-groove system fastens the MicroPak securely into the panel

### Patton Product Compatibility Table

VoIP Micro-ATAs & AFAs		Device Servers		Serial Modems		Surge Protectors	
M-ATA	M-AFA	2120 Series	2120/A9	1000R Series	1012AR Series	503PC	570 Series
				1007 Series	1017 Series	534 Series	580 Series
				1010R Series	1052 Series	547 Series	552 Series
Serial/Parallel Converters		Ethernet Bridges		Data Taps		Interface Converters	
2026P	2036P	2121 Series	2135C Series	3/11	3/45	1104 Series	2086 Series
		2124 Series	2135 Series			2016 Series	2070 Series
		2130 Series				2021 Series	2702 Series
						2040 Series	2090 Series
						2041 Series	2094 Series
						2042 Series	
Baluns		CSU/DSUs		Modem Eliminators			
460 Series	470 Series	2710 Series	2715 Series	1205 Series	1206		
462 Series	471 Series	2711 Series	2400 Series				
463 Series	472 Series						
465 Series							

and many more...

### SPECIFICATIONS

**Front panel:** 16 Operationally independent slots  
**Dimensions:** 19L x 1.5W x 3.8H in. (48.3L x 3.8W x 8.9H cm)  
**Weight:** 1.1 lbs (0.5 kg)

**Latching:** 16 individual steel clips with hardware (Included with unit)  
**Power:** None required. Some units may require individual power supplies

### ORDERING INFORMATION

**1001MP16:** 19-inch, 16-Slot Mounting Panel  
**1001MP-PS8:** 8-Barrel 5V, 4A Power Supply