

## CPX-1501

### RS530 Line Splitter



#### Product Description

The CPX-1501 line splitter receives RS-422 signals from an input source and drives these signals to four RS-422 output sources. The input source is received on a 25-pin connector. The four output sources are provided at four 25-pin connectors.

#### Display

The module contains LED displays to monitor DC power and channel activity. The DC power indicator is located above the DC power input connector. Activity indicators are Clock (C), Ready (R), and Data (D) are located in the upper left corner of the panel.

#### Electrostatic Protection

One model of the CPX-1501, the CPX-1501-B, is designed to protect the transmission lines from over voltages caused by electrostatic discharge (ESD), electrical fast transients (EFT), and lightning.

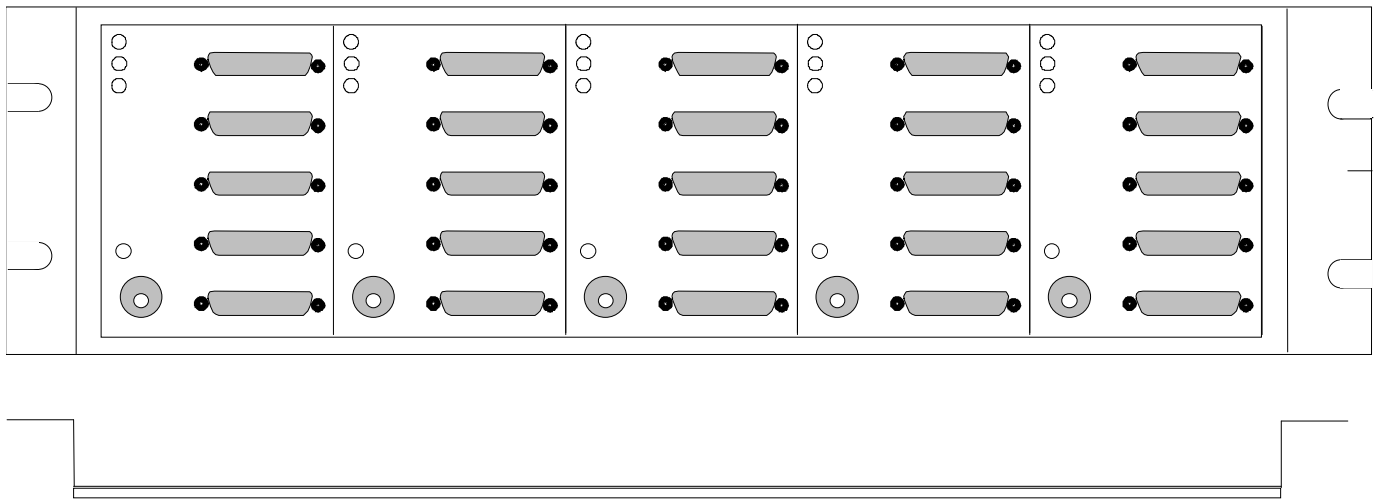
#### Physical Description

Up to five CPX-1501 line splitters can be mounted in a metal recessed enclosure for mounting in a 19-inch RETMA frame.

Each CPX-1501 unit supports four 25-pin connectors for output and one 25-pin connector for input. The input connector is labeled "I" and the output connectors are labeled "A" through "D." Input and output connectors are mounted horizontally with the input connector toward the bottom of the panel. The DC power input connector is located at the left of the enclosure and is labeled "DC."

#### Ordering Information

CPX-1501-BA	RS530 line splitter with ESD protection
FAB-1001-A	Mounting bracket for up to five CPX-1501 panels.



## Specifications

### CPX-1501 Panel:

Dimensions	5.1 in H x 3.4 in W x 1.0 in D (13.95 cm x 8.64 cm x 2.54 cm)
Height with AC Adapter	2.1 in (5.33 cm)
Weight	7 oz (200 gm)

### AC Adapter:

Dimensions	4 in x 2.45 in x 2.55 in (10.2 cm x 6.72 cm x 6.48 cm)
Weight	15 oz (425 gm)

### FAB-1001 Mounting Bracket:

Dimensions	5.25 in H x 19.0 in W x 3.0 in D (13.34cm x 48.26cm x 8.46cm) for standard RETMA rack mounting
Weight	14 oz (397 gm)

### EIA Interface

Input	EIA-RS422 One 25-pin DB25-S connector
Outputs	EIA-RS422 Four 25-pin DB25-S connectors
Signals Supported	Each DB25 connector supports six signals and ground. DATA+, DATA-, CLOCK+, CLOCK-, RR+, RR-, SIG GND

ESD	IEC 1000-4-2 15KV
EFT	IEC 1000-4-4 40A
Lightning	IEC 1000-4-5 12A

### Electrical Power

Power Required:	
+5 volts DC	200ma

Module power is supplied by a UL approved AC adapter which plugs directly into a standard AC outlet and delivers DC power through a cable terminated at a plug style connector.

### Reliability

MTBF	45,000 hours
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### Environmental

FCC EMI/RFI	Meets requirements for a class A computing device
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### Operating Conditions:

Temperature	5° to 50° C (41° to 122° F)
Relative Humidity	20% to 80% noncondensing
Altitude	10,000 feet, maximum

### Storage Conditions:

Temperature	-40° to 66° C (-40° to 150° F)
Relative Humidity	10% to 95% noncondensing

## Pin Assignments

DB25-S	Input and Output		Signal
Signal	Pin	Pin	
SHIELD	1	14	
	2	15	
DATA+	3	16	DATA-
	4	17	CLOCK+
	5	18	
	6	19	
SIG GND	7	20	
RR1+	8	21	
CLOCK-	9	22	
RR1-	10	23	
	11	24	
	12	25	
	13		

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