RACAL INSTRUMENTS™ 1261B-S-2378

3.5 KW VXI Mainframe
1261B-S-2378

- **Front Removable Power Supply Tray**
- **Front Removable Fan Tray**
- **Voltage Monitor**
- **Temperature Monitor**
- **3500 Watts of Power**

The Racal Instruments™ 1261B-S-2378 is a high power 13-slot VXI C-size chassis. Its high power and cooling capability make this chassis ideal for housing the latest generation of high performance VXIbus instruments, such as very high power digital test instruments.

The chassis is capable of delivering up to 3,500 Watts of power to the VXIbus modules to meet the most power hungry applications. The power supply and fan tray are also easily removable from the front of the chassis, thus reducing the time to replace these items. This makes this mainframe ideal for applications with limited rear access.

In addition the chassis provides both temperature and voltage monitoring. A fault indicator is flagged whenever one of the VXIbus power supply outputs goes out of tolerance or when the intake or exhaust air temperature exceed limits.

EADS NORTH AMERICA DEFENSE

1261B-S-2378 SPECIFICATIONS

ELECTRICAL PERFORMANCE

Input Voltage Range
193 to 246 Vrms

Input Frequency Range
47 to 63 Hz

Maximum Power Consumption
4,000 Watts

Maximum Available Power
3,500 Watts*

DC Current Capacity

Voltage	Current
+5V	160A
+12V	25A
-12V	25A
+24V	40A
-24V	40A
-5.2V	150A
-2V	3A

*below 10,000 feet at 45° C

MONITORING SYSTEM

Connector
Front panel mounted 9 pin DSub

Temperature Monitor
Pin 1, 2 open circuit when intake > 45° C or exhaust > 65° C

Pin 1, 2 closed circuit when intake < 45° C or exhaust < 65° C

Voltage Monitor
A window comparator (with +/- 10% tolerance) on each VXIbus supply rail.

Pin 5, 6 open circuit when tolerance exceeded

Pin 5, 6 closed circuit when in tolerance

MECHANICAL

Mainframe Size
VXIbus C-size, 13 slots

Dimensions
17.47”H x 19”W x 21.75”D

Weight
65 lbs

Cooling System
Forced air circulation with positive pressurization using nine 80 CFM fans.

For exhaust temperatures below 30° C the fans run at half speed and above this temperature they run at full speed.

Front Panel Power Connector
7 pin circular connector.

Mating connector EADS part number 602548-207, Amphenol part number 97-3106A-20-15S.

NOTE: mating connector is not supplied and must be ordered separately.

EADS cables 408048 and 408048-001 are available with straight or circular connectors on each end.

ENVIRONMENTAL DATA

Temperature
Operating: 0° C to 50° C

Storage: -40° C to 71° C

Relative Humidity
95% non-condensing

Altitude
Operating: 15,000 ft

Non-Operating: 15,000 ft

Shock
15 g, 11 ms, ½ sine wave

Vibration
0.013 in (p-p), 5-55 Hz

RELIABILITY

MTBF
62,000 hours

(MIL-STD-217E at 25° C)

MTTR
The following components’ can be replaced in less then 5 minutes from the front of the chassis:

- Fan tray
- Power supply tray

ORDERING INFORMATION

MODEL/DESCRIPTION	Part Number
Racal Instruments 1261B-S-2378 High Power 13 slot VXIbus Chassis	408038-S-2378
Power Cable for S-2378, with straight connectors	408048
Power Cable for S-2378, with right angled connectors	408048-001
Connector Circular RCP007 straight	602548-207
Connector Circular RCP007 right angled	602548-007

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