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Racal Instruments™

1266

Portable 4-Slot VXIbus Chassis

The Racal Instruments™ 1266 is a low-cost, 4-slot, C-size, VXI chassis, designed and built with ISO-9001 certified quality. This chassis, when used either with sophisticated VXI instruments or carrier-mounted instruments (like M-Modules), makes light, portable, high-density, and cost-effective applications possible in a very small footprint.

Key Features

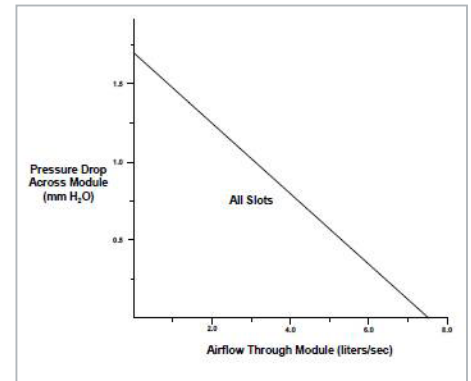
- Low cost, 4-slot, VXI chassis suitable for data acquisition, switching, field service, or test systems
- Efficient, quiet cooling system to preserve instrument reliability
- Small 3U rack footprint saves valuable rack space
- Monitoring system checks VXI voltages, power supply temperature, and fan operation
- Rack mount options include cable ducts with slide or rail mount
- Small size and light weight makes portable VXI applications possible

Product Information

The 1266, equipped with a convenient carrying handle on top, is ideal for portable applications. Available rack-mount kits (fixed and on slides) also make this chassis the natural choice for rack-mount applications with limited space, since only 3U of rack space is needed.

The 1266 uses a modular power supply assembly with a cable-less interconnect system that provides 250 W of available power and 175 W of usable power. Its high dynamic current ensures crisp signals and accurate measurements from installed modules. The chassis includes status indicators for all seven power supply rails, power supply temperature status, and fan operation.

Ample cooling air is delivered to the modules by means of a two-speed fan system designed to optimize audible noise and cooling. Chassis slot blockers are available which are easily installed to prevent cooling air from being diverted through unused slots.



Airflow curves generated using VXI-8 fixture and specifications.

Specifications

Note: The EADS North America Test and Services policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Electrical Performance

Power Supply Input

- 115 VAC ±10%: 47-440 Hz
- 230 VAC ±10%: 47-66 Hz

Inrush Current

- 132 VAC: <35 A typical
- 264 VAC: <75 A typical

Max Input Power

- 280 VA

Front Panel Interface

System Monitor LEDs

- Power Supply Voltages (green = OK, amber = one or more out of spec)
- Power Supply Temperature (green = OK, amber = near thermal shutdown)
- Fan Status (green = OK, amber = fan not operating properly)

Interface

Usable Power

- 0° C to 40° C: 175 W
- 40° C to 50° C: 150 W
- 50° C to 55° C: 125 W

Power Supply Protection

- Over Voltage
- Over Temperature
- Short Circuit (to Ground)
- Short Circuit (Output/Output)

Periodic and Random Deviations (PARD)

- ±24 VDC: 150 mV_{pk-pk}
- All others: 50 mV_{pk-pk}

Peak Current and Dynamic Current

- Standard Power Supply:

	I _{MP} (A)	I _{MD} (A)
+5 V	17	2.5
-5.2 V	2	1
+12 V	2.7	1
-12 V	2	0.8
+24 V	2	1
-24 V	2	1
-2 V	2	1

Total Available Power: 250 W

Environmental

(MIL-T-28800 Type III, Class 5, Style F)

Acoustic Noise

- High Speed Fan: <40 dBA
- Variable Fan: <30 dBA typ

Temperature Range

- Operating: 0° C to 55° C
- Storage: -40° C to 71° C

Humidity

- Operating (0° C to 40° C): <95% RH
- Operating (40° C to 55° C): <65% RH
- Storage (0° C to 55° C): <95% RH
- Storage (55° C to 65° C): <90% RH

Altitude

- <3000 m

MTTR

- Fan: <30 minutes
- Power Supply: <20 minutes

EMC

- FCC 47 CFR Part 15 Class A
- CE: EN50081-1 Emissions; EN50082-1 Immunity

Safety

- EN61010-1, UL 3111-1

Mechanical

Mainframe Size

- VXIbus, 4 each C-size slots

Chassis Weight

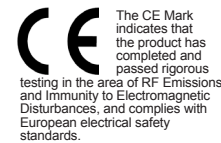
- With Bumpers: 20 lbs (9.1 kg)
- Without Bumpers: 19 lbs (8.6 kg)

Dimensions (Horizontal mounting)

- With Bumpers: 6.0" H x 15.3" W x 21.6" D
- Without Bumpers: 5.25" H x 14.3" W x 21.3" D

Fan Speed Modes

- High Speed: Maximum airflow
- Variable: Hi/Low controlled by power supply temperature



Ordering Information

407866 : Racal Instruments™ 1266

C-Size, 4-slot VXIbus Mainframe

Available Options:

- 407870-009 : Option 01, Rack-Mount Slide Kit
- 407870-007 : Option 04, Rack-Mount Kit with Cable Route Adapter
- 407870-008 : Option 05, VPP-8 Support Rail Kit (for use with Rack Mount Kit)
- 407870-051 : Option 51, Backplane Connector Shrouds (8, installed)
- 407870-010 : Spare Standard 175 W Power Supply Module
- 407870-002 : Spare Fan Assembly
- 407870-004 : EMC Blanking Plate (1 each)

The 1266 is supplied with a U.S. power cord (standard) unless alternate power cord is requested at time of order placement. Contact factory.



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