



Low-Cost, Portable, 4-Slot VXIbus Chassis

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..

- ◆ **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, Lightweight Makes Portable VXI Applications Possible**

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.

1266 PRODUCT SPECIFICATIONS

ELECTRICAL PERFORMANCE

Frequency Response

DC to 100 MHz (200 mV p-p)

Inrush Current

132 VAC: < 35 A typical

264 VAC: < 75 A typical

Max Input Power

280 VA

VXIBUS INTERFACE DATA

Peak Current and Dynamic Current

Standard Power Supply:

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

Total Available Power: 250 W

Option PS Power Supply:

	+5 V	-5.2 V	+12 V	-12 V	+24 V	-24 V	-2 V
I _{MP} (A)	19.4	5.8	2.7	2	2	0.5	2
I _{MD} (A)	2.5	1	1	0.8	1	0.25	1

Total Available Power: 225 W

Usable Power

0° C to 40° C: 175 W

40° C to 50° C: 150 W

50° C to 55° C: 125 W

Periodic and Random Deviations (PARD)

±24 VDC: 150 mVpk-pk

All others: 50 mVpk-pk

Power Supply Protection

Over Voltage

Over Temperature

Short Circuit (to Ground)

Short Circuit (Output/Output)

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)

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)

Bumpers: 6.0" H x 15.3" W x 21.6" D

No 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

ENVIRONMENTAL DATA

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

Acoustic Noise

High Speed Fan: <40 dBA

Variable Fan: <30 dBA typical

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 Compliance

FCC 47 CFR Part 15 Class A

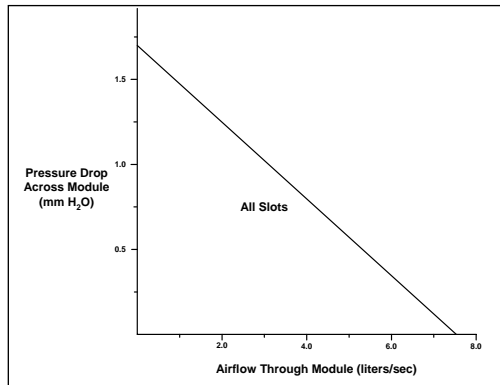
CE: EN50081-1 Emissions

EN50082-1 Immunity

Safety Compliance

EN61010-1, UL 3111-1

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.



1266 Airflow

Airflow curves generated using VXLR fixture and specifications

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1266, C-Size, 4-slot VXibus Mainframe
 Racal Instruments Option 01, Rack-Mount Slide Kit
 Racal Instruments Option 04, Rack-Mount Kit with Cable Route Adapter
 Racal Instruments Option 05, VPP-8 Support Rail Kit (for use with Rack Mount Kit)
 Racal Instruments Option 51, Backplane Connector Shrouds (8, installed)
 Spare Standard 175 W Power Supply Module
 Spare Fan Assembly
 EMC Blanking Plate (1 each)
 Hard Copy User/Service Manual

PART NUMBER

407866
 407870-009
 407870-007
 407870-008
 407870-051
 407870-010
 407870-002
 407870-004
 980880

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

The EADS North America Defense Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.



EADS North America Defense Test and Services
 1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com