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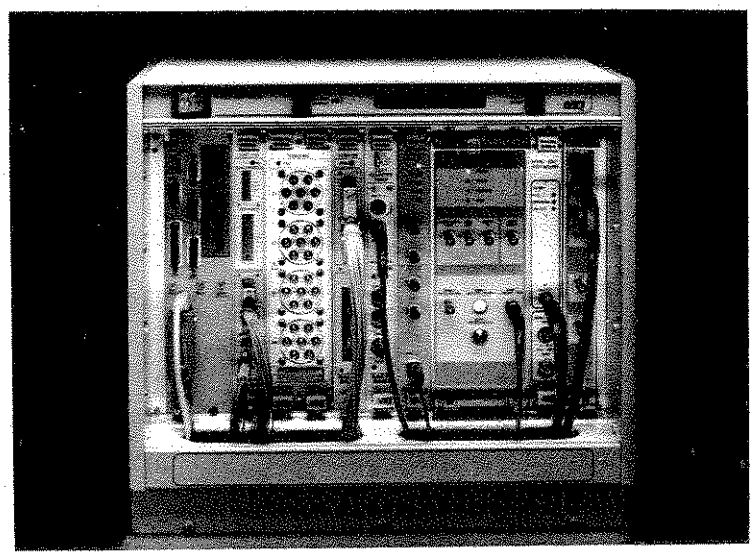
Find the *Astronics / EADS / Racal 1261AH* at our website: ***Click HERE***

Racal Instruments

VXIbus CHASSIS MODEL 1261A

VXI bus

- **13-slot, C-size Chassis-Most Practical Choice for ATE**
- **Two Different Power Configurations-Meets the Demands of Any Test System**
- **Jumperless, 12-Layer Backplane--Combines Simplified System Configuration with Optimum Electrical Performance**



- **Intelligent System Monitor - Allows Local and Remote System Monitoring of Power Supplies, Temperature and Airflow**
- **70 Watts of Cooling per Slot Ensures High System Reliability**
- **New Air Guide Delivers More Air Through the Module**

Power

Model 1261A has the ability to meet virtually any system requirement. With medium- and high-power options, the 1261A offers the most flexible power solution of any mainframe. This flexibility allows selection of the best chassis for a specific application. Upgrades to higher power supplies can easily be achieved.

The chassis can also be provided without power supplies, allowing the user to utilize external power such as linear supplies or DC/DC converters for special power requirements.

Racal Instruments specifies only Total Usable Power, which is the maximum power output that meets the noise and ripple limits of the VXIbus specifications. When comparing specifications from different manufacturers, always refer to usable power. Also ensure that this power is indeed usable over the full temperature range. The 1261A's specified Total Usable Power is valid over 0°C - 55°C.

Power supplies are mounted directly on a hinged rear panel. This provides access to the DC supplies and the backplane to ease maintenance operations. All power supplies are protected against over voltage, over current and over temperature faults.

Monitoring

Optional intelligent system monitoring capabilities are embedded in the chassis without occupying a VXIbus slot. A front panel LCD indicates system status and faults, and a

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resettable, audible alarm is activated when faults are detected. The intelligent monitor continuously checks all power supplies, system airflow and temperature. Remote access is achieved via a GPIB link.

Cooling

The 1261A is cooled by a positive pressure cooling system. Two constant-speed impellers pressurize a plenum chamber in the chassis. A metered plate ensures equal airflow to each slot, independent of the number of installed modules. Constant full-speed airflow ensures adequate cooling regardless of loading. In addition, it offers the most efficient cooling practice for partially populated chassis. This approach also avoids any thermal run-away problems associated with module hot spots. The use of backward curved impellers virtually eliminates blade passage frequencies and results in significantly lower fan noise.

A new air guide system ensures that more air flows into the module and does not vent around the module as with conventional card guides. Also provided are snap on covers to divert air from unpopulated slots to areas where extra cooling can be used.

The 1261A chassis provides for cool air intake from the sides, and air exhaust to the rear of the unit. This is the recognized as the standard for rack-mounted systems, and ensures that when the chassis is mounted in a rack; the whole system is thermally managed. The chassis does not use heated air from other instrumens nor does it exhaust into neighboring equipment air intakes. Washable, reusable air filters provide clean air. Filters are accessible from the rear.

Cable Trays

The 1261A also features an integrated cable tray to ease cable routing and VXI chassis interfacing. Holes in the bottom and sides of the cable tray further facilitate cable routing to other instruments. The front of the chassis is recessed to accommodate cable bending radius and allow interface connectors to be concealed, away from the front of the system.

For systems that may need many cables to pass through the chassis to a high-density interface, optional deep cable trays can be provided.

Backplane

The 12-layer, auto configurable backplane of the 1261A provides optimum bus performance. Two ground planes are utilized for +5V and -5.2V supply lines, resulting in low voltage gradients across the backplane. All ECL and TTL signals use stripline technology, minimizing crosstalk and monitoring controlled impedances. To provide maximum bandwidth and isolation, the Sumbus lines are completely enclosed.

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1261A SPECIFICATIONS

Power Supply Input
115 VAC ± 10% or
230 VAC ± 10%

AC Line Frequency
47 to 63 Hz

Power Supply Protection
Short circuit, over-goltage, reverse voltage and thermal shutdown

Max Input Power
1400 VA

Cooling
70 Watts/Slot, 10°C rise

Temperature Range
Operating: 0°C to 55°C
Storage: -40°C to 70°C

Mainframe Size
C-size, 13 slots

Dimensions (HxWxD)
15.75" X 17.5" X 26.75"
14.00" X 17.5" X 26.75" without cable tray

Weight
1261AM 62 lbs.
1261AH 68 lbs.

Acoustic Noise
45 dBA at full airflow

Backplane
12 Layer, auto configuring

Crosstalk
Worst case data line to SUMBUS: -54dB

Noise Floor
-100dB (1Hz bandwidth)

SUMBUS Bandwidth
125MHz

Environmental
MIL-T-28800 Type III, Class 5, Style F

Safety
UL1950, CSA22.2
TUV EN 60950

DC Power:

Total Usable Power 0°C - 55°C, 500 Watts Peak Power = 775 Watts

1261AM		+24	+12	+5	-5.2	-2	-12	-24
Dynamic Current	Ripple/Noise 150mV	2.5	2.0	7.5	7.5	2.2	2.0	2.5
	Ripple/Noise 50mV	1.0	0.7	3.0	2.7	0.8	0.7	1.0
	Peak Current (I_{mp})	3.0	5.0	45.0	45.0	5.0	4.5	5.0

Total Usable Power 0°C - 55°C, 800 Watts Peak Power= 1352 Watts

1261AH		+24	+12	+5	-5.2	-2	-12	-24
Dynamic Current	Ripple/Noise 150mV	6.0	5.0	11.0	11.0	3.5	5.0	6.0
	Ripple/Noise 50mV	3.0	2.0	5.0	5.0	1.3	2.0	3.0
	Peak Current (I_{mp})	12.0	12.0	60.0	60.0	10.0	12.0	6.0

Not a VXI Specification VXIbus Specification

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