# **RACAL INSTRUMENTS 1258**



## **100 MHz Switching Matrix**

- Solid State, Non-Blocking Switch Matrix
- DC to 100 MHz
- Ethernet, GPIB or RS-232 Control
- Ideal for Audio, Video and Telemetry Signal Routing Applications
- Configurable up to 64 Input by 64 Output

Racal Instruments 1258 switching unit provides a high-density capability for signal routing and switching of audio, video, telemetry, Electronic Intelligence, IF and other types of signals from DC to 100 MHz. Its solidstate, non-blocking logic provides a full fan-out capability; any input can be switched to multiple outputs The system is designed for low noise operation and maximum isolation of unselected signals.

The 1258 can be controlled by Ethernet, GPIB, or RS-232. It contains a PC-104 embedded controller and four (4) RS-232 outputs to control up to four (4) additional 1258 switching units. This enables an entire switching system to be managed with a single point of software control.



# **1258 PRODUCT SPECIFICATIONS**

#### GENERAL

Solid-State, Non-Blocking Frequency Response DC to 100 MHz (200 mV p-p) Crosstalk -60 dB @ 5 MHz (200 mV p-p) Isolation

-85 dB @ 5 MHz (2 V p-p) -110 dB @ 5 MHz (200 mV p-p) Switching Time

6 ms Switching Transient 15 mV p-p

#### OUTPUT

Impedance 50 Ω Maximum Offset Voltage ±50 mV Capacitance 18 pF Current 20 mA to 40 mA

#### **ENVIRONMENTAL DATA**

Temperature Operating: 0° C to 55° C Storage: -40° C to 75° C Relative Humidity 85% ±5% non-condensing, ≤35° C Altitude Operating: 10,000 ft. Non-Operating: 15,000 ft. Shock 30 g, 11 ms, ½ sine wave Vibration 0.013 in.: (p-p), 5-55 Hz Bench Handling

4-inch drop at 45°

## EMC

Emissions/Immunity EN61326:1997+A1:1998

#### SAFETY

EN61010-1:1993+A2:1995

#### RELIABILITY

MTBF 57,569 hours (each matrix card) (MIL-STD-217E)

MTTR

≤5 min.

### MECHANICAL

Weight 19 lbs. Dimensions 3.5" H x 16.5" W x 19.5" D

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.

### **ORDERING INFORMATION**

#### **MODEL/DESCRIPTION**

Racal Instruments 1258, 64x64 Switching Matrix Racal Instruments 1258, 64x48 Switching Matrix Racal Instruments 1258, 64x32 Switching Matrix Racal Instruments 1258, 64x16 Switching Matrix, SMA Racal Instruments 1258, 64x48 Switching Matrix, SMB Racal Instruments 1258, 64x48 Switching Matrix, SMB Racal Instruments 1258, 64x32 Switching Matrix, SMB Racal Instruments 1258, 64x48 Switching Matrix, SMB Racal Instruments 1258, 64x48 Switching Matrix, SMB Racal Instruments 1258, 64x16 Switching Matrix, SMB PART NUMBER

407900-001 407900-002 407900-003 407900-011 407900-012 407900-013 407900-014 407900-021 407900-022 407900-023 407900-024



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