

Typical applications: **32 x RF Detection Shelf** • High density RF detection chassis where rack space is limited. for Matrix Systems • Can be used as part of an RF Matrix system in expanding satellite teleports. -10 to -60 dBm RF detection range Compact 32 x 2way RF detection modules housed in a 3U high , 19" rack mountable chassis Resilience from hot swap RF detection modules, hot swap dual redundant power supplies and a hot swap CPU Local monitoring via status LEDs on individual modules 850 - 2150 MHz operating frequency range. **Remote control & monitoring** via RS232 serial & RJ45 Ethernet port with SNMP & web browser interface Dry contact alarm port & serial communications for amplifier & power supply status



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Model Number: 22302-DET10

RF Parameters						
22302 Module slots used		Each RF detection module takes 1 slot. 32 slots available in chassis.				
Capacity		RF detect with RF loop through				
Frequency Range		850-2150 MHz (L-band)				
Insertion Loss		2 dB ±1 dB				
RF Connectors		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	
Flatness	850-2150MHz	±1.0 dB	±1.0 dB	±1.0 dB	±1.0 dB	
	Any 80MHz	±0.4 dB	±0.4 dB	±0.4 dB	±0.4 dB	
Input Return Loss	Typical	16 dB	14 dB	12 dB	10 dB	
	Minimum	10 dB	10 dB	8 dB	8 dB	
Output Return Loss	Typical	16 dB	14 dB	12 dB	10 dB	
	Minimum	10 dB	10 dB	8 dB	8 dB	
Isolation	Card to Card	>60 dB, 80 dB typical				
Input RF Power		+16 dBm Absolute maximum				

Technical specifications and operating parameters

Environmental		
Operating temperature	0 to 45°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	20 to 90% non-condensing	

Power				
PSU Power	85-264Vac 50-60Hz	Fused 2A, Dual IEC		
Power Consumption	<30 W	Fully populated with DET10 cards		
LNB Power	None			
PSU	Dual redundant	Diode OR		
Hot-swap PSU	Yes			
RF Monitoring	None			

System Control			
Local Control	Via Front Panel LCD and push buttons		
Remote Control	Via RS232 serial port & RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.		
Alarms	LED via CPU in chassis	Also amplifier status monitoring via HMI when used in a matrix switch system.	

Physical		
Dimensions	3U high x 250mm deep x 19" wide	
Weight	<12 kg	
Colour	RAL9003-White (semi-matte)	

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.

ETL SYSTEMS LIMITED Coldwell Radio Station Madley Hereford England HR2 9NE TELEPHONE +44 (0)1981 259020

EMAIL info@etlsystems.com

FACSIMILE +44 (0)1981 259021

WEB www.etlsystems.com







