XTREME 32

32 Port Fan-Out Broadband RF Matrix Switch

XTREME 32

General Description:

The ***XTREME 32*** Dual Band matrix switch is a full fan-out (distributive) non-blocking signal management solution that routes an input to any or all outputs. The design features an industry exclusive architecture that supports both symmetric and asymmetric configurations of 32 combined inputs and outputs in a compact 1 RU chassis. Hot-swappable redundant power supplies, I/O Modules, and a field replaceable cooling fan provide maximum reliability.

Features & Benefits:

- 50-1000 MHz operating range
- Flexible matrix configurations (16x16, 4x28, 8x24)
- Optional LNB power 400 mA per Input 13/18 V with 22 kHz tone
- Adjustable input and output gain
- Redundant hot-swappable power supplies
- Hot-swappable input and output adapters
- Dual gigabit ethernet ports
- Field replaceable cooling fan

Specifications:*	*XTREME 32 Broadband RF Matrix Switch*
As Configured/ Expandable to:	8x16 (16X16)
RF Connectors:	F-Type, BNC 75 Ω or 50 Ω, SMA Mixed
Operating Frequency:	50 - 1000 MHz
Frequency Response: Default Gain: typically Centered @ 0 dB	+/- 3 dB
Any 36 MHz:	+/- .8 dB
Input P1dB:	
Default Gain:	0 dBm min
Max Input Gain:	-10 dBm typical *
Noise Figure:	
Default Gain:	14 dB max
Max Input Gain:	10 dB typical *
OIP3:	
Default Gain:	9 dBm min
Input Return Loss:	14 dB min
Output Return Loss:	14 dB min
Isolation:	
Input to Input:	60 dB min
Output to Output:	60 dB min
Input to Output:	55 dB min
Input Gain Range:	-19.5 to 12 dB in .5 dB steps
Output Gain Range:	-15.5 to 16 dB in .5 dB steps
RF Sensing Range:	-50 to 0 dBm
AGC Tracking Range:	-50 to -10 dBm setpoint
Switching Speed:	150 mS per crosspoint typical *
	<2 uS from break to make
Maximum Input Power: (No Damage)	20 dBm (30 VDC max on any port)

Physical:	
Dimensions:	1 RU (1.75” H x 19” W x 18.5” D)
Weight:	14 lbs. gross (boxed), 11.2 lbs. net
Certifications:	CE, TUV NRTL, FCC Part 15

**Typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty

Control	
Local Control:	
Front Panel 2.2” LCD Display with Rotary Knob	
Remote Control:	
Dual 10/100/1000 Base Tx Ethernet Ports	
SNMP	v2c, v3
TCP/IP	Quintech 2.15 Protocol (Port 9100)
Web Server	
Secure Web Server with Custom SSL Certificate	
TELNET with option to disable	
Macro Scripting Language to Automate Changes and Monitoring	
XR Bus Expansion Standard	
Optional Ethernet Expansion	
NTP Time Client	

Alarms and Logging:
SNMP Traps on Status Change
SNMP Trap on Crosspoint Change
SysLog, SQL, or CSV Format Log File
Q-Sense:
Primary and Backup Input Pairs: Backup is automatically switched if the Primary Input falls below the threshold level.

Power and Cooling Requirements:	
AC Input Range:	100-240 VAC Autoranging 50/60 Hz 5A max
Hot-Swappable Redundant Supplies with Separate AC Inlets	
Power Consumption:	100 W typical, 200 W with LNB option
Fan:	Long-life ball bearing fan (field swappable)
Input and Output RF Modules:	Hot Swappable

Environmental Parameters:	
Operating Temperature:	0 to 50° C
Storage Temperature:	-10° C to 75°C
Humidity:	20 % to 90% non-condensing
Altitude:	10,000 feet AMSL

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