

XTREME 32

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

QUINTECH[®]
The Source for RF Reliability

Dual 8x8 Hybrid RF Matrix Switch

QH12200V8X8/8X8CSS1AA1000

Industry Leading Specifications, and Hot-Swappable Components Provide an *XTREME* Signal Management Solution

The *XTREME 32 Hybrid* matrix switch is an L-Band matrix switch that features a non-blocking 8x8 splitting matrix and a non-blocking 8x8 combining matrix with hot-swap I/O cards, redundant power supplies, and control module in a compact 1 RU chassis. Dual 10/100/1000 Ethernet ports allow for redundant control connections. The specifications given here are with SMA connectors on the inputs and outputs.

850-2500 MHz Operating Range

Adjustable Input and Output Gain

Redundant Hot Swappable Power Supplies

Dual Gigabit Ethernet Ports

Hot-swappable Input and Output Adapters

Field Replaceable Cooling Fan



Convenient Local Control and
Status Monitoring

Field Replaceable
Cooling Fan

Hot-swappable I/O
Adapters

Independent Input and Output
Gain Control to balance input
levels and cable loss

Dual Gigabit Ethernet Ports
remotely controllable via secure web
browser interface, SNMP, TCP API, or
TELNET



F-Type, BNC 50, BNC 75, SMA, and mixed
connector configurations available

Hot-swap
Redundant Power Supplies

250 Airport Road • Indiana, PA 15701 • (800) 839-3658 • (724) 349-1412 • Fax: (724) 349-1421

<http://www.quintechelectronics.com/> • info@quintechelectronics.com

© 2021 Quintech Electronics and Communications Inc. All rights reserved. All product designs and specifications are subject to change without notice
QH12200V8X8/8X8CSS1AA1000 Rev E, CO# 31060 (Page 1 of 2)

XTREME 32

Dual 8x8 Hybrid RF Matrix Switch

Specifications and Operating Conditions

Base Configurations:	8x8 Full Fan-Out			8x8 Full Fan-In		
RF Connectors:	SMA(f), 50Ω			SMA(f), 50Ω		
Operating Frequency (MHz):	50-200, 850-2500 MHz			50-200, 850-2500 MHz		
	50-200	950-2150	850-2500	50-200	950-2150	850-2500
Frequency Response (max) at Default Gain <small>Typically centered 0 dB</small>	+/- 2.0 dB	+/- 1.5 dB	+/- 3.0 dB	+/- 1.5 dB	+/- 1.5 dB	+/- 2.5 dB
Any 36 MHz:	+/- .5 dB	+/- .5 dB	+/- .7 dB	+/- .5 dB	+/- .5 dB	+/- .5 dB
Input P1dB:						
At Default Gain:	0 dBm min					
At Max Input Gain:	-15 dBm typical*					
OP1dB:				17 dBm @ 18 dB Output Gain		
Noise Figure at:				1 Connection [Full Fan-In] dB		
Default Gain (max):	15 dB	13 dB	14 dB	15 [24]	13 dB [21 dB]	
Max Input Gain (typ):	11 dB*	9 dB*	10 dB*	8* [14*]	7 dB* [11 dB*]	
OIP3						
At Default Gain:	10 dBm min			10 dBm min		
Input Return Loss:	12 dB min	14 dB min		12 dB min	14 dB min	
Output Return Loss:	14 dB min					
Isolation (min):						
Input to Input:	60 dB min					
Output to Output:	60 dB min					
Input to Output:	55 dB min		50 dB	55 dB min		50 dB
Fan-In/Fan-Out	60 dB min			60 dB min		
Input Gain Range:	-15.5 to 16 dB in .5 dB steps			-17.5 to 14 dB in .5 dB steps		
Output Gain Range:	-14.5 to 17 dB in .5 dB steps			-13.5 to 18 dB in .5 dB steps		
RF Sensing Range:	-50 to 0 dBm					
AGC Tracking Range:	-50 to 0 dBm					
Switching Speed:	150 mS per crosspoint command typical*					
	<2 uS from break to make					
Maximum Input Power: <small>(No Damage)</small>	20 dBm (30 VDC max on any port)					

Local Control:
Front Panel 2.2" LCD Display with Rotary Knob
Remote Control:
Dual 10/100/1000 Gbps Ethernet Ports
SNMP v2c, v3
Web Server (HTTP or HTTPS) with Custom SSL Certificate
Secure NTP time client
IP Whitelisting
Alarms and Logging:
SNMP Traps and/or Syslog messages on State Change
SysLog, SQL, or CSV Format Log File

Power Requirements:
AC Input: 100-240 VAC Autoranging 50/60 Hz 5A
Power consumption: 110W typical
Hot Swappable Modules:
Redundant power supplies with separate AC Inlets
Long-life ball bearing fan (field swappable)
Input and output RF modules

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

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

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

250 Airport Road • Indiana, PA 15701 • (800) 839-3658 • (724) 349-1412 • Fax: (724) 349-1421

<http://www.quintechelectronics.com/> • info@quintechelectronics.com

© 2021 Quintech Electronics and Communications Inc. All rights reserved. All product designs and specifications are subject to change without notice
QH12200V8X8/8X8CSS1AA1000 Rev E, CO# 31060 (Page 2 of 2)