

QF42450V64X32CB1AA32000

64X32 BNC(f) 75 Ω Controller

Exclusive Flexible Matrix Architecture, Industry Leading Specifications, and Hot-Swappable Components Provide an XTREME Signal Management Solution

The XTREME 160-C L-band matrix switch is a full fan-in (combinational) non-blocking signal management solution that routes an output with any or all inputs. The design features an industry exclusive flexible architecture that supports both symmetric and asymmetric configurations of up to 160 combined inputs and outputs in a compact 4 RU chassis. Hot-Swappable Input, Matrix, and Output RF Cards, redundant power supplies, and cooling fans provide maximum reliability.

850-2450 MHz Operating Range

Flexible Matrix Configurations including (64x64, 128x32, 80x48)

Redundant Hot Swappable Power Supplies

8.4" Integrated Touchscreen LCD

QUINTECH

76c Source for RF Reliability

All active cards are Hot-swappable in less than a minute

Adjustable Input and Output Gain

Hot Swappable Cooling Fans



Specifications and Operating Conditions

QF42450V64X32CS1AA32000			
As Configured/ Fully Populated:	64X32/64X64		
RF Connectors:	BNC(f) (75Ω)		
Optical Connectors:	N/A		
Operating Frequency:	950-2150 MHz	850-2450 MHz	
Frequency Response: Default Gain¹: typically* Centered @ 0 dB	± 2 dB	± 2 dB	
Any 36 MHz:	± 0.5 dB		
Input P1dB:			
Default Gain:	0 dBm min		
Noise Figure:			
Default Gain:	14 dB max		
OIP3:			
Default Gain:	+10 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	50dB min	
Input Gain Range:	-23.5 to +8 dE	3 in .5 dB steps	
Output Gain Range:	-19.5 to +12 dB in .5 dB steps		
RF Sensing Range:	-50 to 0 dBm		
AGC Tracking Range:	-40 to -10 dBm setpoint		
Switching Speed:	150 mS per crosspoint typical *		
5 B opeca.	<5 uS from b	reak to make	
Maximum Input Power:	20 dBm (30 VDC max on any port)		
(No Damage)		velength 900-1650 nm)	
Group Delay Variation:	5nS		
Optical Input Specifications:	N	/A	

Control:		
Front Panel/Web Server, Dual Redundant QPE CPU Cards		
Local Control:		
8.4" Front panel Touchscreen LCD		
Remote Control:		
10/100/1000 BaseTx Ethernet Port to Web Server Controller		
Independent 10/100 BaseTx Ethernet Ports to each QPE Controller		
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		

Power and Cooling Requirements:		
AC Input Range:	100-240 VAC Autoranging 50/60 Hz 5A	
Hot-Swappable Redundant Supplies with Separate AC Inlets		
Power Consumption:	250 W	
Fans:	Hot swappable	
Matrix and Input, Output RF Modules:	Hot Swappable	

Physical:		
Dimensions:	4 RU (7.0" H x 19" W x 23.25" D)	
Weight:	95 lbs. gross (boxed) 87 lbs. net	

Environmental Parameters:		
Operating Temperature:	0 to 50° C	
Storage Temperature:	-10° C to 70°C	
Humidity:	up to 95% RH non-condensing	
Altitude:	10,000 feet AMSL	

^{*} typical refers to expected product performance that is useful in application of the product but is not covered by the product warranty

¹ Specifications valid at unity gain (Input Gain = 0, Output Gain = 0). Optical link specs vary based on transmitter.