

# QUINTECH *ELECTRONICS* 3<sup>rd</sup> GENERATION

## QE3



## **64 x 64 L-BAND MATRIX IN 6 RU**

- Compact, modular design - 64 x 64 in 6U, easily expandable to 1024 x 1024
- Operating frequencies cover both "IF" 50-200 MHz and L-band 950-2150 MHz
- Fast and easy hot-swap (less than 30 seconds) of all active cards from the front without using tools or replacing cables
- Redundant hot-swap control cards plus independent redundant control systems offer the highest level of redundancy in control
- RF signal level monitoring at the inputs and outputs provides self-test capability and facilitates troubleshooting network interfaces
- Programmable AGC and attenuation on all inputs allows the user to adjust the input signal level for optimum performance
- Up to 6 amps of Redundant LNB Power available with automatic current limiting (+24V)



# QE3

## QE3 SYSTEM SPECIFICATIONS

RF Specifications	L-Band	IF
Operating Frequency Range	950 - 2150 MHz	50-200 MHz
Frequency Response	+/- 1.5 dB +/-0.50 dB Over any 36 MHz channel	+/- 1.5 dB +/-0.50 dB Over any 36 MHz channel
Isolation	> 70 dB Input to Input > 60 dB Output to Output > 60 dB Input to Output	> 70 dB Input to Input > 60 dB Output to Output > 60 dB Input to Output
RF Input Power	-10 dBm to -70 dBm	-10 dBm to -70 dBm
Gain Range (manual mode)	-12 dB to +18 dB in 0.5 dB steps	0 dB to +30 dB in 0.5 dB steps
Output AGC level	-10 dBm to -50 dBm	-10 dBm to -50 dBm
Max. RF Output Power	-10 dBm	-10 dBm
Input P1dB	+3 dBm at 1550 MHz	+0 dBm
OIP3	+14 dBm at 1550 MHz	+17 dBm at 70 MHz
Input Return Loss	15 dB	13 dB
Output Return Loss	14 dB	10 dB
Noise Figure	8 dB (1550 MHz Gain =+18 dB)	8 dB (70 MHz Gain =+18 dB)
Configurations:	64 x 64 up to 1024x1024	
RF Connectors:	Type "F", BNC (50 or 75 Ω )	
AC Input Power:	Auto ranging 100-240 VAC, 50/60 Hz	
Local Control:	Front panel keypad with LCD display	
PC Remote Control	RS-232, RS -422/485, SNMP, TELNET or TCP/IP via customer supplied PC	
Software:	Basic PC-compatible operating software and command protocol included	
Mechanical:	64 x 64 in 6U: 10.5" H x 19" W x 25.25" D	

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