

# QE3™

## 64 x 64 RF Matrix Router with Touch Screen



### General Description:

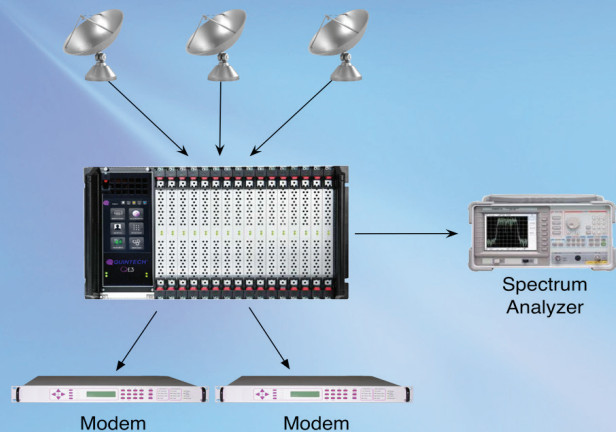
The QE3 router features a compact 64 x 64 RF matrix in 6 RU with embedded web browser and touch screen interface. The QE3 is a full fan-out, non-blocking RF Matrix Switch where any input can be routed to any or all outputs. The QE3 features Quitech's latest Q-Route & Q-Sense technology, which provides maximum reliability with signal path redundancy and auto re-route capabilities. The QE3 is highly scalable and can easily be expanded to a 1024 x 1024. Hot-swappable component cards enable fast and easy replacement without any special tools or disconnecting any cables. The RF level at the inputs and outputs are monitored to facilitate trouble-shooting network interfaces. Manual and automatic gain control (MGC/AGC) on all inputs allow the user to adjust input signal levels for optimum performance.

### Features & Benefits:

- Compact, modular design - 64 x 64 in 6 RU, easily expandable to 1024 x 1024
- Operating range covers L-Band 950-2150 Mhz
- Full fan-out switching
- Manual and programmable AGC and attenuation on all inputs allows the user to adjust the input signal level for optimum performance
- Redundant hot-swap control cards plus independent redundant control systems
- Fast and easy hot-swap (less than 30 seconds) of all active cards with no RF recabling
- **Q-ROUTE™** Provides internal signal path redundancy by automatically re-routing around a failed signal path
- **Q-SENSE™** Provides external signal path redundancy by automatic switching to a back-up input signals, if alternate is selected
- Remotely controlled via web browser, RS-232, RS-485, SNMP, Telnet or Ethernet via customer supplied PC
- Saves rack space by eliminating the need for splitters & patch panels
- Reconfigure signal paths in seconds

### Applications:

- Route multiple satellite feeds to multiple receivers or modems
- Automatically route signals for monitoring & control
- Monitor input levels to detect loss of signal conditions
- Reconfigure test configurations for compliance & interoperability testing
- Automatically connect back-up signal on primary feed loss



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*The Source for RF Reliability*



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# QE3



## Specifications\*

QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
ISO 9001:2008

Operating Frequency:  
Gain Range (manual mode):  
Impedance:  
P1dB:  
OIP3:  
RF Input Power:  
RF Sensing and AGC Range:  
Frequency Response:

950-2150 MHz  
-12 dB to +18 dB in 0.5 dB steps  
50  $\Omega$  or 75  $\Omega$   
0 dBm minimum  
+10 dBm minimum  
0 dBm maximum  
-10 dBm to -50 dBm  
+/- 1.5 dB  
+/- 0.5dB over any 36 MHz channel  
65 dB minimum  
60 dB minimum  
50 dB minimum  
14 dB  
14 dB  
22 dB @0 dB gain

Isolation (input-to-input):  
Isolation (output-to-output):  
Isolation (input-to-output):  
Input Return Loss:  
Output Return Loss:  
Noise Figure:

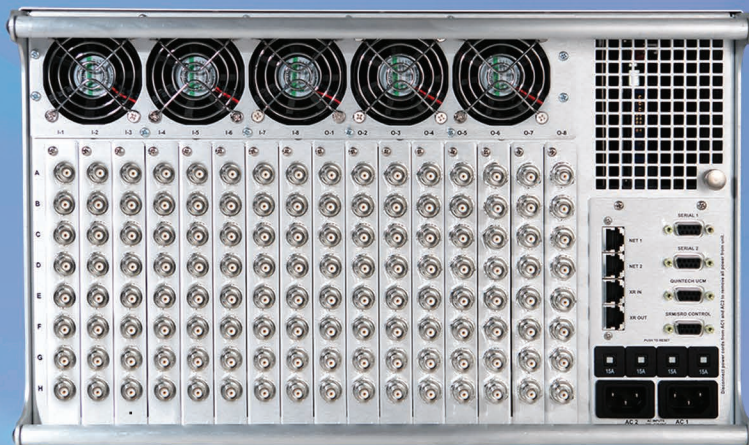
Configurations:  
RF Connectors:  
AC Input Power:  
Power Consumption:  
Local Control:  
PC Remote Control:

64 x 64 up to 1024 x 1024  
BNC (50 or 75  $\Omega$ ), Type "F", SMA Connectors  
Auto Ranging 100-240 VAC, 50/60 Hz  
620 W  
Front panel touch screen or optional keypad  
RS-232, RS-422/ 485, SNMP, Telnet or TCP/IP via customer  
supplied PC, embedded web browser  
Embedded web server and API protocol  
64 x 64 in 6 RU: 10.5" H x 19" W x 25.25" D

Software:  
Mechanical:

073012

\*All product designs and specifications are subject to change without notice



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