

### General Description:

The **QRM250016X16CCFA000** is a matrix switch and switching subsystem that provides a complete 16x16 matrix switching solution in a 1 RU chassis. 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 of back-up input signals. It is controllable either locally via the front panel keypad or remotely via computer and is compatible with most monitoring and control systems.

### Specifications:

	<b>L-Band</b>	<b>IF</b>
<b>Operating Frequency:</b>	950-2150 MHz	50-200 MHz
<b>Gain Range (manual mode):</b>	-15 dB to +16 dB in 0.5 dB steps	-15 dB to +16 dB in 0.5 dB steps
<b>Impedance:</b>	50 Ω	50 Ω
<b>P1dB:</b>	+2 dBm	-3 dBm
<b>OIP<sup>3</sup>:</b>	10 dBm	8 dBm
<b>RF Input Power:</b>	-10 dB to -70 dB	-10 dB to -70 dB
<b>RF Output Power:</b>	-10 dBm	-10 dBm
<b>Output AGC Level:</b>	-10 dBm to -50 dBm	-10 dBm to -50 dBm
<b>Frequency Response:</b>	± 1.5 dB ± 0.4 dB over any 36 MHz channel	± 2.25 dB ± 0.6 dB over any 36 MHz channel
<b>Isolation (input-to-input):</b>	65 dB	70 dB
<b>Isolation (output-to-output):</b>	60 dB	60 dB
<b>Isolation (input-to-output):</b>	50 dB	55 dB
<b>Input Return Loss:</b>	14 dB	14 dB
<b>Output Return Loss:</b>	14 dB	14 dB
<b>Noise Figure:</b>	<18 dB @ 0 dB <9.5 dB @ 16 dB	<18 dB @ 0 dB <9.5 dB @ 16 dB

<b>Configuration:</b>	16 inputs / 16 outputs
<b>RF Connectors:</b>	BNC, 50 Ω
<b>Power Requirements:</b>	100-240 VAC autoranging, 50/60 Hz
<b>Power Consumption:</b>	80 W
<b>Local Control:</b>	Front panel keypad with LCD display
<b>Remote Control:</b>	RS-232, RS-485, SNMP, TELNET or ETHERNET via customer-supplied PC
<b>Software:</b>	PC-compatible operating software and protocol (included with the system)
<b>Mechanical:</b>	1 RU (1.75" H x 19" W x 18.5" D)
<b>Weight:</b>	14.5 lbs. gross (boxed), 12.0 lbs. net



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