

Model 3208

75 Ohm Solid State - RF Switching

Features

950 MHz - 2150 MHz (L-band)
75 OHM System
Non-Blocking Cossbar
Local Control : *LCD Touch Screen with Keypad*
Remote Control: *ENET, RS-232/RS-485*

Part Number

3208 - 8x8 -ENET

* ENET option includes RS-232 and RS-485

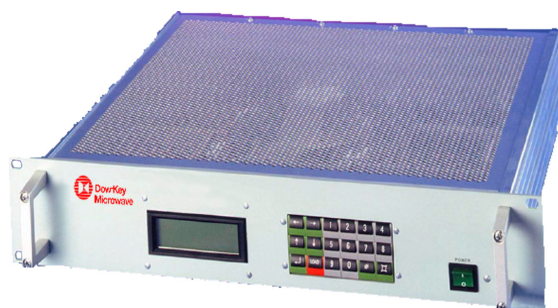


Photo: 3208-8X8-ENET

Description

The 3208 Model is a non-blocking crossbar (any input connected to any output at a time) solid state switching system with an operating frequency of 950-2150 MHz. The matrix is configured with (8) inputs and (8) outputs with an application of receiving and transmitting L-band signals. The system is housed in a 2U 19" chassis, which consists of the following sub-assemblies:

- >> low noise amplifiers with high dynamic range
- >> 8x8 matrix board
- >> processor boards (optional)
- >> redundant power supply (optional)
- >> voltage monitoring board (optional)

With a modular approach, the sub-assemblies enable ease of installation and maintenance.

Note: This unit can be expandable to 16x16 in a 3U chassis.

Control Interfaces

Local control (manual control):

- >> 4x20 LCD and 3x6 pushbuttons

Remote Control:

- >> Default: LAN via TCP/IP protocol (ENET) and RS-232/RS-485
- >> Other control interfaces available upon request.

Special Features

- >> The power supply voltage and the I/O boards are monitored in a processor routine.
- >> The selected crosspoints as well as the voltage and I/O fault messages are displayed on the manual control module.
- >> A status string can be requested at any time via the control interface
- >> The units is constructed using a modular approach utilizing sub-assemblies such that it enables the ease of installation and maintenance.



Environment

| | |
|------------------------|---------------------------------------------------------------|
| Power Supply: | 115 / 230 VAC, 47-63 Hz, redundant power supply (optional) |
| Storage Temperature: | -20 °C to +70 °C |
| Operating Temperature: | 0 °C to +50 °C |
| Operating Humidity: | 10-80% (non-condensing) |
| EMC: | EN61000-6-1 and EN61000-6-3 |

Physical

| | |
|---------------------|--------------------------------------------------------------------------------|
| Relay Type: | Solid State |
| I/O Connector Type: | F female |
| Dimensions: | 19" wide standard rack mount 2U maximum height (5.25") 19" maximum depth |
| Front Panel Color: | Gray |

RF Characteristics

| | |
|--------------------------------------------|-------------------------------------------------------------------------------------------|
| Impedance | 75 Ohm |
| Operating Frequency | 950-2150 MHz |
| VSWR (max) | 1.8:1 |
| Isolation (min) | 45 dB input / input 40 dB output / output (Diff. Input) |
| Crosstalk (min) | 45 dB |
| Gain | 1 dB +/- 1.0 dB (defines minimum and maximum gain across the specified frequency band) |
| Gain Flatness | +/- 1.5 dB (typ) |
| Noise Figure (max) | 13.0 dB |
| 1 dB Compression Point | -7 dBm |
| 3rd Order Output Intercept Point (IP3) min | +8 dBm |
| 2nd Order Output Intercept Point (IP2) min | +20 dBm |