

Model 3206

75 Ohm Solid State - RF Switching

Features

20 MHz - 200 MHz (IF-band)
75 OHM System
Non-Blocking Full Fan-out:
Local Control : LCD Touch Screen
Remote Control: ENET (other options exist)

Part Number

3206 - 8x8 - *

* : ENET, RS232, RS422, RS485, or GPIB

Description

The 3206 Model is a non-blocking Full Fan-Out (any input connected to any output simultaneously) solid state switching system with an operating frequency of 20-200 MHz. The matrix is configured with (8) inputs and (8) outputs with an application of receiving and transmitting IF signals. All non-used inputs paths are internally terminated, and the system is housed in a 3U 19" chassis, which consists of the following sub-assemblies:

- >> SP8T solid state switch boards
- >> low noise amplifiers with high dynamic range
- >> 8-way power dividers
- >> processor boards (optional)
- >> redundant power supply (optional)

Control Interfaces

Local control (manual control):

- >> 4x20 LCD and 3x6 pushbuttons

Remote Control:

- >> Default: LAN via TCP/IP protocol (ENET)
- >> Options: RS-232, RS-422, RS-485, and GPIB (IEEE-488)

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.



Photo: 3206-8X8-ENET

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 +40 °C
Operating Humidity:	10-80% (non-condensing)
EMC:	EN61000-6-1 and EN61000-6-3

Physical

Relay Type:	Terminated Solid State
I/O Connector Type:	BNC Female
Dimensions:	19" wide standard rack mount 3U maximum height (5.25") 17" maximum depth
Front Panel Color:	Gray

RF Characteristics

Impedance	75 Ohm
Operating Frequency	20-200 MHz
VSWR (max)	1.3:1
Isolation (min)	70 dB input / input 40 dB output / output (Different Input)
Crosstalk (min)	55 dB
Gain	0 dB +/- 1.0 dB (defines minimum and maximum gain across the specified frequency band)
Gain Flatness	+/- 1.0 dB (max), +/- dB (typical)
Noise Figure (max)	17.0 dB
1 dB Compression Point	0 dBm (max)
3rd Order Output Intercept Point (IP3) min	+20 dBm
2nd Order Output Intercept Point (IP2) min	+35 dBm

