



3205

## Features

<b>Input/Output ports</b>	6x6 to 12x12 unidirectional
<b>Configuration</b>	Non-blocking Full Fan-Out
<b>Operating Frequency</b>	2-32 MHz
<b>Manual Control</b>	LCD Touch Screen
<b>Remote Control</b>	Ethernet
<b>Power Supply</b>	Redundant power supplies
<b>Impedance</b>	50-Ohm

## Part Numbers

3205 (6X12)	3205-6X6-ENET (6X6)
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## Application

The 3205 Model is a non-blocking full fan-out solid state switching system operating from 2 MHz to 32 MHz (HF-band). The system can be configured with a maximum 6 inputs and 12 outputs

As a fan-out matrix, the input RF signals are divided across every output such that each input signal can be switched to all output ports simultaneously.

This model is equipped with a MS Windows based PC, removable SATA hard drive and redundant power supplies with LED monitoring on the front panel. Locally it can be controlled via an LCD touch screen and remotely with Ethernet.

This model is ideal for SATCOM applications where high density RF switching (transmitting and receiving) for narrowband, low frequency and low power applications are required.

## RF Characteristics

### 6x6 to 6x12

<b>VSWR (max)</b>	1.80:1 input & output
<b>Isolation (min)</b>	50 dB input/input
	50 dB input/output
	50 dB output/output (different input)
	30 dB output/output (common input)
<b>Gain</b>	0 dB $\pm$ 2.0 dB
<b>Survivable Input Power</b>	+25 dBm (max) no damage
<b>1dB Compression (min)</b>	+15 dBm input
<b>3rd Order Intercept (min)</b>	+30 dBm
<b>2nd Order Intercept (min)</b>	+60 dBm
<b>Noise Figure (max)</b>	10 dB

## Specifications

<b>Relay Type</b>	Electromechanical Relay
<b>Other Components</b>	Amplifiers, Power Dividers
<b>I/O Connector Type</b>	SMA female
<b>Switching Time (typ)</b>	100 ms (incl. control delay)
<b>MTBF</b>	25,000-50,000 Hours
<b>Dimensions (max)</b>	19" wide rack mount 21" Depth 3U Height (5.25")
<b>Operating Temperature</b>	0 °C to +50 °C
<b>Storage Temperature</b>	-20 °C to +70 °C
<b>Operating Humidity</b>	10-80% non-condensing
<b>Weight (max)</b>	40 lbs

<b>Local Control</b>	6.5" LCD Touch Screen (640x480)
<b>Remote Control</b>	Ethernet TCP/IP, 10/100/1000 BASE-T
<b>Commands/Syntax</b>	Dow-Key SCPI commands
<b>Operating System</b>	Microsoft Windows 7 or later RS-232 gives access to the built-in PC
<b>Hard drive</b>	160 GB (min) SATA HD / removable
<b>CPU/ Memory</b>	Embedded Intel processor / 2G RAM (min)
<b>Power Supply</b>	120-240 VAC, 50-60 Hz, 3-6A, 250 W (max) Power ON/OFF switch with guard on the front and LED indicators for redundancy
<b>Fuse</b>	Accessible/replaceable on the rear
<b>Cooling / Venting</b>	4 fans / side-to-side

We reserve the right to alter, amend or replace any specifications at our sole discretion and without prior notice.