

# RF Switching Systems

## 3204

**IF-Band : 20 MHz to 200 MHz**  
**Solid State Switch Matrix**

### Description

The 3204 Model RF Switching System is a Solid State Matrix available in Non-Blocking Full Fan-Out (that connects any input to any one or multiple outputs simultaneously) with the configurations of 6x6, 6x12, and 12X12.

To compensate for system insertion loss, all inputs are outfitted with high linearity amplifiers. The EWEB version of this product can be easily accessed from anywhere in the world via TCP/IP protocols on 10Base-T networks using HTTP 1.0 interface. While the Switch Matrix is designed for signal routing applications, it can also be utilized as a building block for numerous ATE applications.

Each unit is equipped with a Windows-based CPU and a front panel touch screen for manual override and is housed in a low profile 3U rack mountable chassis. This Switch Matrix offers an enclosure and redundant power supplies matched for EMI integrity.

### Features

- Manual control - included
- Remote control - widest possible selection
- LCD Display with Front Panel Control or Touch Screen 9" Front Panel
- Windows XP
- Removable Hard Drive
- Redundant power supply with individual front panel LED monitor

### Command and Control

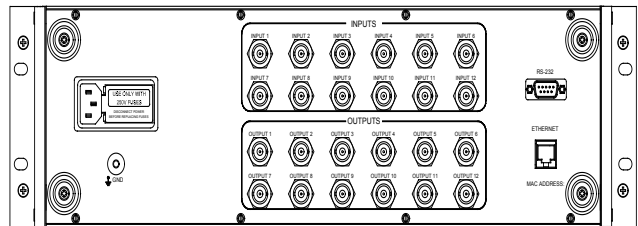
- Local control via front panel
- Solid State controller with LCD display (Graphical Touch Screen)
- Touch Screen for manual override and local control
- Remote control via network connections:
  - >> Rear Panel RS-232 (DP9 female) standard DCE pin-out
  - >> Baud Rate 9600
  - >> 10BT/100/100BT Ethernet Interface (RJ-45 connector)

### Physical

- I/O Connectors: BNC Female
- Dimensions: 19" wide standard rack mount  
3U maximum height (5.25")  
25" maximum depth
- Front Panel Color: Gray
- Weight (max): 40 lbs

### Environment

- 85-264 VAC, 47-63 Hz, 3-6 A, 250 W (max)
- Standard AC grounded power cable (removable, IEC 320 C19 to NEMA 5-15P)
- Fuse/Breaker: Externally accessible/replaceable
- Storage Temperature: -20 °C to +70 °C
- Operating Temperature: 0 °C to +60 °C
- Operating Humidity: 10-80% (non-condensing)



### RF Characteristics

6 inputs and 6 outputs (6x6) expandable to 12 inputs and 12 outputs (12x12) modular Non-Blocking Full fan-out as defined by any input to any one or multiple outputs

Impedance	50 Ohms
Operating Frequency	20 – 200 MHz
Isolation (min)	55 dB input / input 65 dB input / output 65 dB output / output (Different Input) 45 dB output / output (Common Input)
Gain	0 dB +/- 1.0 dB (defines minimum and maximum gain across the specified frequency band)
Input Power(max)	+15 dBm with no damage
1 dB Compression Point	+10 dBm
VSWR (max)	Input 1.5:1 Output 1.5:1
3rd Order Output Intercept Point (IP3) min	+20 dBm
2nd Order Output Intercept Point (IP2) min	+35 dBm
Noise Figure (max)	15 dB



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