

## Model 301 Intermediate Frequency Distribution Matrix

The 301 family of Intermediate Frequency Switch Matrices are intended for down-link side routing and distribution of final IF signals to receivers and modems. The 301 is a Full Fan Out architecture, any input can be routed to any or multiple outputs. The 301 is a modular series, allowing the matrix size to be custom configured. Inputs can be configured from 2 to 8 inputs, in steps of two. Outputs can be configured from 4 to 32 outputs, in steps of four.

The unit's front panel display permits local users to view and change routings, as well as checking the health and status of the chassis. A local lockout command inhibits front panel access. All functions and status are also accessible through the remote interfaces. A simple ACSII literal based command set allows quick and easy remote control of the unit.

### Electrical

Frequency Range	10 – 200 MHz
Insertion Loss	0 +/- 1.0 dB
Flatness	+/-0.5 dB
Path On/Off Isolation	55 dB
Maximum Operating Level	- 5 dBm
Inter-modulation Distortion, OIP <sup>3</sup>	+18 dBm
Noise Figure	12 dB
Impedance	50 ohms
Return Loss / VSWR	-14 dB / 1.4:1
Primary Power	115/230VAC, 50/60Hz, 75 watts
Remote Interfaces	RS-574 (DTE) RS-485 (two wire) 10BaseT (RJ45)

### Mechanical

Chassis Size	3U (5.25")H x 19"W x 20"D
RF Connectors	BNC Female

### Environmental

Operating Temperature	0 to +50 C
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### Configuration Information

#### 301-XX-YY

where **XX** is the number of inputs 02 through 08  
and **YY** is the number of outputs 04 through 32.

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