

## Model 302 Intermediate Frequency Combining Matrix

The 302 family of Intermediate Frequency Switch Matrices are intended for up-link side routing and distribution of IF signals to modems and up-converters. The 302 is a Full Fan In architecture, any output can be a programmable combination of multiple inputs. The 302 is a modular series, allowing the matrix size to be custom configured. Inputs can be configured from 4 to 32 inputs, in steps of four. Outputs can be configured from 2 to 8 outputs, in steps of two.

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	+10 dBm
Inter-modulation Distortion, OIP <sup>3</sup>	+28 dBm
Noise Figure	20 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

#### 302-XX-YY

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

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