

With the introduction of the new **STARGATE™** product line, **ANTENEX®** has truly become an antenna solutions supplier. In today's cluttered repeater environments, intermod solutions are the site manager's goal.

The precise design of our intermod panels can reduce IM products by better than 35 dB, restoring receiver integrity in a harsh environment.

Don't be fooled by the phrase "Mobile Duplexer". Our rugged pass reject duplexers are perfect for your low power repeater operations. Our commitment to the site manager doesn't end there. Antenex went the extra mile and provides an even higher quality "pass notch" rack mount base duplexers.

Perhaps you installed all new cables on your new trunking system and cut them to minimum lengths to save line loss and suddenly you notice that some devices run hot! Using line matchers will reduce heat caused by mismatched cable lengths that create inductive or capacitive loads, thus restoring 50 ohms to your feed lines.

Once you have your transmitter in shape, don't neglect the receiver. Antenex receiver amplifiers provide 16 dB gain or better with a low noise figure to complete your system.

Free freight policy does not apply to some **Stargate™** models.



SGRA216B



SGDM138B, Inset: SGDM138N



SGDB440N, Inset: SGDB144N



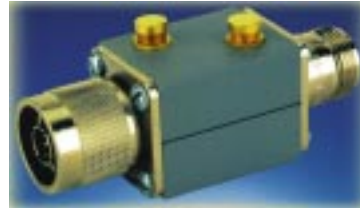
SGIP150N

**Ordering Guide - Clear, Easy & Sensible!**

**SGDM150B - Stargate™ Mobile Duplexer, 150 MHz, BNC connector**

|     |           |                            |                    |         |         |
|-----|-----------|----------------------------|--------------------|---------|---------|
| SG  | Style     | SG = <b>Stargate™</b> Line |                    |         |         |
| DM  | Type      | DM = Mobile Duplexer       | DB = Base Duplexer |         |         |
|     |           | IP = Intermod Panel        | IS = Isolator      |         |         |
|     |           | RA = Amplifier             | LM = Line Matcher  |         |         |
| 150 | Frequency | 108-300                    | 138-174            | 144-190 | 146-174 |
|     |           | 150-225                    | 216-225            | 300-650 | 406-512 |
|     |           | 440-512                    | 650-1000           | 806-960 |         |
| B   | Connector | B = BNC N = N connector    |                    |         |         |

| Model    | Description     | Connector | Frequency    |
|----------|-----------------|-----------|--------------|
| SGDM138B | Mobile Duplexer | BNC       | 138-174 MHz  |
| SGDM440B | Mobile Duplexer | BNC       | 440-512 MHz  |
| SGDM806B | Mobile Duplexer | BNC       | 806-894 MHz  |
| SGDM138N | Mobile Duplexer | N         | 138-174 MHz  |
| SGDM440N | Mobile Duplexer | N         | 440-512 MHz  |
| SGDM806N | Mobile Duplexer | N         | 806-894 MHz  |
| SGDB144N | Base Duplexer   | N         | 144-190 MHz  |
| SGDB440N | Base Duplexer   | N         | 440-512 MHz  |
| SGIP150N | Intermod Panel  | N         | 150-300 MHz  |
| SGIP300N | Intermod Panel  | N         | 300-650 MHz  |
| SGIS150N | Isolator        | N         | 150-225 MHz  |
| SGIS300N | Isolator        | N         | 300-650 MHz  |
| SGLM108N | Line Matcher    | N         | 108-300 MHz  |
| SGLM300N | Line Matcher    | N         | 300-650 MHz  |
| SGLM650N | Line Matcher    | N         | 650-1000 MHz |
| SGRA146B | RX Amplifier    | BNC       | 146-174 MHz  |
| SGRA216B | RX Amplifier    | BNC       | 216-225 MHz  |
| SGRA406B | RX Amplifier    | BNC       | 406-512 MHz  |
| SGRA806B | RX Amplifier    | BNC       | 806-960 MHz  |



SGLM108N



SGIS150N

**Technical Data - Product Features & Information**

| DESCRIPTION     | FREQUENCY    | INPUT     | ISOLATION | CAVITIES |
|-----------------|--------------|-----------|-----------|----------|
|                 | BAND         | POWER     |           |          |
| Mobile Duplexer | 138-174 MHz  | 40 WATTS  | 70+ dB    | 6        |
|                 | 440-512 MHz  | 40 WATTS  | 70+ dB    | 6        |
|                 | 138-174 MHz  | 40 WATTS  | 70+ dB    | 6        |
|                 | 440-512 MHz  | 40 WATTS  | 70+ dB    | 6        |
|                 | 806-894 MHz  | 40 WATTS  | 80+dB     | 6        |
|                 | 806-894 MHz  | 40 WATTS  | 80+dB     | 6        |
| Base Duplexer   | 144-190 MHz  | 100 WATTS | 80 dB     | 4        |
|                 | 440-512 MHz  | 100 WATTS | 80 dB     | 4        |
| Intermod Panel  | 150-300 MHz  | 125 WATTS | 35+dB     |          |
|                 | 300-650 MHz  | 125 WATTS | 35+dB     |          |
| Isolator        | 150-225 MHz  | 20 WATTS  | 35+dB     |          |
|                 | 300-650 MHz  | 20 WATTS  | 35+dB     |          |
| DESCRIPTION     | FREQUENCY    | INPUT     | INSERTION |          |
|                 | BAND         | POWER     | LOSS      |          |
| Line Matcher    | 108-300 MHz  | 250 WATTS | 0.15 dB   |          |
|                 | 300-650 MHz  | 250 WATTS | 0.15 dB   |          |
|                 | 650-1000 MHz | 250 WATTS | 0.15 dB   |          |
| DESCRIPTION     | FREQUENCY    | NOISE     | BIAS      |          |
|                 | BAND         | GAIN      | FIGURE    | VOLTAGE  |
| RX Amplifier    | 146-174 MHz  | 18.5 dB   | 3.0 dB    | 13.6V    |
|                 | 216-225 MHz  | 16.0 dB   | 3.5 dB    | 13.6V    |
|                 | 406-512 MHz  | 24.5 dB   | 2.4 dB    | 13.6V    |
|                 | 806-960 MHz  | 19.0 dB   | 3.4 dB    | 13.6V    |

See <http://www.antenex.com> for product additions and more product details