

3.5 INTEGRATED ANTENNA

Type:	Patch Array Antenna
Polarization:	Vertical, Horizontal electrically selectable
Frequency:	5.2 to 5.9 GHz 5.7 to 5.9 GHz for the D2
Gain:	+15 +/- 1 dBiL +8 +/- 1 dBiL for the Fox-D2
Az Beamwidth:	32 degrees (3 dB down) 60 degrees (3 dB down) for the Fox-D2
El Beamwidth:	18 degrees (3 dB down) 60 degrees (3 dB down) for the Fox-D2
Cross Pol:	>15 dB
Front/Back Ratio:	>30 DB as mounted in M5800S-FSU
VSWR:	< 2.0:1 over Bandwidth

3.6 Dish Antenna (18 inch DSS style)

The unit is designed to operate with the Trango Broadband model AD5800-25 dual linear polarized dish antenna.

Type:	18" DSS Style Dish Antenna
Polarization:	Vertical, Horizontal electrically selectable
Frequency:	5.7 to 5.9 GHz
Gain:	+25 dBi when M5800S-FSU-D or M5800S-FSU-D2 is installed on dish
Az Beamwidth:	9°
El Beamwidth:	9°
Cross Pol:	> 15dB
Front/Back Ratio:	> 30dB
VSWR:	2:1
Wind Loading:	80 mph operational



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Federal Communications Commission
Authorization and Evaluation Division

Regarding the AD5800-25-D reflector dish used with the M5800S-FSU-D2 transceiver:

FCC ID: NCYM5800SFSUD2

Pursuant to Sections 15.203 requirement for use of a unique antenna connection or integral antenna, the reflector used in this design is not a standard DSS dish antenna available off-the-shelf. The antenna is custom made for Trango Systems and uses a custom designed boom which places the transceiver feed element at the focal point of the dish.

If a standard DSS dish antenna were used, the focal point will not be centered on the feed element and the dish would not function properly.

Please contact me at (858) 353-3900 if you have any further concerns.

Sincerely,

Achim Soelter

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