



360 Herndon Parkway
Suite 1400
Herndon, VA 20170
<http://www.rheintech.com>

14 ANTENNA SPECIFICATIONS

External Antennas Electrical Specifications:

Standard & High Performance Plane - Dual Polarized Unlicensed "NII" and Spread Spectrum / "ISM" Bands

(National Information Infrastructure) (Industrial, Scientific & Medical)

Facts & Features

- Gabriel Quality and Dependability.
- Innovative Feed Design.
- Feed input is Type N Female, 50 ohm.
- Isolation is 35 dB on Dual Polarized models.
- Optional radomes available.
- 2 ft. (0.6) model feeds are installed from the front of the antenna. 4 ft. (1.2), 6 ft. (1.8) and 8 ft. (2.4) model feeds are installed from the rear of the antenna, and allow for inspection or replacement from the rear.

These models allow for smooth polarization adjustment from the back of the antenna.

- Gabriel's Quick Align Mount comes standard on the SSP2, SSD2 and HSSP2 models. This mount allows for quick installation and easy alignment of the antenna with two hand tools. The Quick Align Mount will mount to a 1.9 - 4.5 in OD mast pipe.

- New environmentally pleasing neutral colors.

- Dual band models are available.

Electrical Specifications

Frequency GHz	Model Number	Size ft (m)	Standard	Low	Gain at Mid dBi	High	Nominal Mid-Band Beamwidth degrees	XPD dB	F/B ratio dB	VSWR max.	(R.L. dB)
------------------	-----------------	----------------	----------	-----	-----------------------	------	---	-----------	--------------------	--------------	--------------

Standard - Plane Polarized

5.250 - 5.850	SSP2-52B	2 (0.6)	-	28.1	28.5	29.0	6.1	25	38	1.50	(14.0)†
	SSP4-52B	4 (1.2)	-	33.6	34.2	34.6	3.1	30	46	1.50	(14.0)†
	SSP6-52A	6 (1.8)	-	37.0	37.5	38.0	2.1	30	49	1.50	(14.0)†
	SSP8-52	8 (2.4)	-	39.4	39.8	40.3	1.6	30	52	1.50	(14.0)†

Standard - Dual Polarized

5.250 - 5.850	SSD2-52A	2 (0.6)	-	28.0	28.4	28.9	6.1	30	38	1.50	(14.0)†
	SSD4-52A	4 (1.2)	-	33.5	34.1	34.5	3.1	30	46	1.50	(14.0)†
	SSD6-52	6 (1.8)	-	36.9	37.4	37.9	2.1	30	49	1.50	(14.0)†
	SSD8-52	8 (2.4)	-	39.3	39.7	40.2	1.6	30	52	1.50	(14.0)†

High Performance - Plane Polarized

5.250 - 5.850	HSSP2-52	2 (0.6)	-	27.7	28.1	28.6	6.1	30	43	1.50	(14.0)†
	HSSP4-52	4 (1.2)	-	33.3	33.9	34.3	3.1	30	50	1.50	(14.0)†
	HSSP6-52	6 (1.8)	-	36.7	37.2	37.7	2.1	30	58	1.50	(14.0)†
	HSSP8-52	8 (2.4)	-	39.2	39.6	40.1	1.6	30	62	1.50	(14.0)†

See the Special Application section of this catalog for Gabriel's Directional Flat Panel antennas for Spread Spectrum operation.

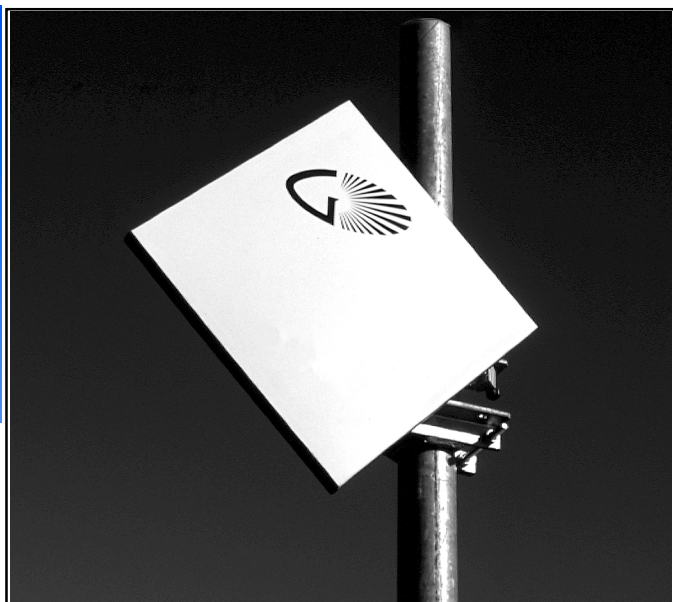


Gabriel "UNII" and "ISM" Band
2-ft. (0.6 m) - Plane Polarized - Standard Parabolic Antenna

Associated Equipment Information	Pages
Point-to-Point Antenna Specifications	14 - 111
Special Application Antennas	135 - 145
Antenna Mounts & Reference Dimensions	112 - 134
Radomes	122 - 124
Tower Accessories	146 - 154
Transmission Lines	155 - 243
Dry Air Pressurizers	244 - 253

NOTE:

† Improved VSWR available.
Product information subject to change without notice.



5 GHz Directional Flat Panel Antenna

Associated Equipment Information	Pages
Point-to-Point Antenna Specifications	14 - 111
Special Application Antennas	135 - 145
Antenna Mounts & Reference Dimensions	112 - 134
Radomes	122 - 124
Tower Accessories	146 - 154
Transmission Lines	155 - 243
Dry Air Pressurizers	244 - 253

Electrical Specifications

Frequency GHz	Model Number	Size ft (m)	Mount Type	Low	Gain at Mid dBi	High	Nominal Mid-Band Beamwidth degrees	XPD dB	F/B ratio dB	VSWR max.	(R.L. dB)
------------------	-----------------	----------------	---------------	-----	-----------------------	------	---	-----------	--------------------	--------------	--------------

Diagonal - Directional Flat Panel - Plane Polarized

5.250 - 5.850	DFPS.5-52**	0.5 (0.15)	MM	17.5	18.0	18.4	19.0	30	35	1.50	(14.0)
	DFFD1-52	1 (0.3)	MM	23.0	23.5	23.9	9.4	30	43	1.50	(14.0)
	DFFD1-52 (M1)	1 (0.3)	QAM	23.0	23.5	23.9	9.4	30	43	1.50	(14.0)
	DFFD2-52	2 (0.6)	QAM	27.5	28.0	28.4	4.6	30	46	1.50	(14.0)

MM	=	Mini - Mount
QAM	=	Quick Align Mount

** Note:

The DFPS.5-52 antenna model is square in configuration.

5 GHz - Spread Spectrum / NII Band Directional Flat Panel Antenna (for Point-to-Point applications)

Facts & Features

- Gabriel Quality and Dependability.
- Lightweight and durable construction.
- Quick and easy installation.
- Antenna input is a Type N Female, 50 OHm .
(Other types available on request.)
- Input connector positioned on back of antenna assembly.
- Antenna supplied with paintable rigid radome.
- All Gabriel antennas meet or exceed Standards EIA-195-C and EIA-222-F.
- Antenna accommodates +/-20° elevation adjustment.
(specific installation limitations may apply)
- Mini-Mounts accommodate a 1.9 in. to 4.5 in. (48 to 114 mm) O.D. mast pipe. Quick-Align Mounts mount to a 2.375 in. (60 mm) O.D. mast pipe. An optional 1.9 in. (48 mm) to 4.5 in. (114 mm) Mast Clamp Kit is available on request for the Quick-Align Mount.
- To adapt the Quick Align Mount for use on a 1.9 in. to 4.5 in. O.D. mast pipe order Mast Clamp Kit MCKQA-19-45
- Special colors and / or logos available on request.
- Dual band models are available.

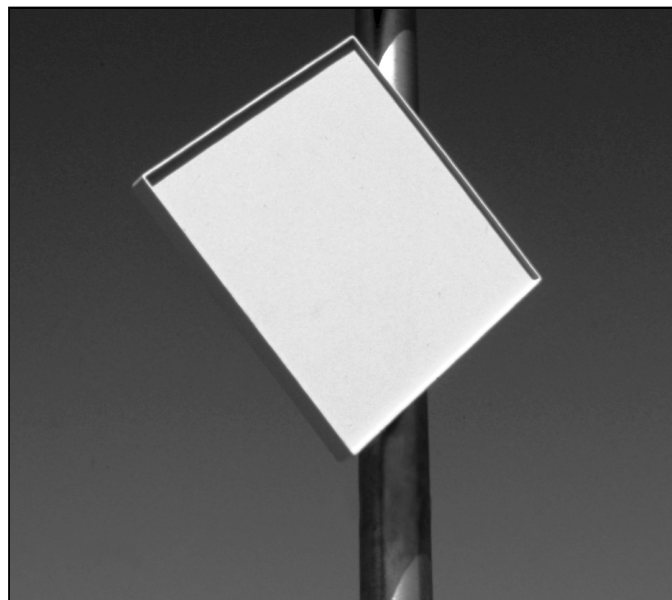
NOTE:

Product information subject to change without notice.

5 GHz - Spread Spectrum / NII Band Directional Flat Panel Antenna (for Point-to-Point applications)

Facts & Features

- Gabriel Quality and Dependability.
- Lightweight and durable construction.
- Quick and easy installation.
- Feed input, Type N Female connector. (Other types available on request.)
- Input connector positioned on back of antenna assembly.
- Antenna supplied with paintable rigid radome.
- All Gabriel antennas meet or exceed Standards EIA-195-C and EIA-222-F.
- Antenna accommodates +/-20° elevation adjustment. (Specific installation limitations may apply.)
- Mini-Mounts accommodate a 1.9 in. to 4.5 in. (48 to 114 mm) O.D. mast pipe. Quick-Align Mounts mount to a 2.375 in. (60 mm) O.D. mast pipe. An optional 1.9 in. (48 mm) to 4.5 in. (114 mm) Mast Clamp Kit is available on request for the Quick-Align Mount.
- To adapt the Quick Align Mount for use on a 1.9 in. to 4.5 in. O.D. mast pipe order Mast Clamp Kit MCKQA-19-45
- Special colors and / or logos available on request.
- Dual band models are available on request.



5 GHz Directional Flat Panel Antenna

Associated Equipment Information	Pages
Point-to-Point Antenna Specifications	14 - 111
Special Application Antennas	135 - 145
Antenna Mounts & Reference Dimensions	112 - 134
Radomes	122 - 124
Tower Accessories	146 - 154
Transmission Lines	155 - 243
Dry Air Pressurizers	244 - 253

Electrical Specifications

Frequency GHz	Model Number	Size ft (m)	Mount Type	Low	Gain at Mid dBi	High	Nominal Mid-Band Beamwidth degrees	XPD dB	F/B ratio dB	VSWR max.	(R.L. dB)
------------------	-----------------	----------------	---------------	-----	-----------------------	------	---	-----------	--------------------	--------------	--------------

Diagonal - Directional Flat Panel - Plane Polarized

5.250 - 5.850	DFPS.5-52**	0.5 (0.15)	MM	17.5	18.0	18.4	19.0	30	35	1.50	(14.0)
	DFPD1-52	1 (0.3)	MM	23.0	23.5	23.9	9.4	30	43	1.50	(14.0)
	DFPD1-52 (M1)	1 (0.3)	QAM	23.0	23.5	23.9	9.4	30	43	1.50	(14.0)
	DFPD2-52	2 (0.6)	QAM	27.5	28.0	28.4	4.6	30	46	1.50	(14.0)

MM	=	Mini - Mount
QAM	=	Quick Align Mount

** Note:

The DFPS.5-52 antenna model is square in configuration.

NOTE:
Product information subject to change without notice.
Other polarization configurations available.