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 MCKQ-19-45*
- Special colors and / or logos available on request.
- Dual band models are available on request.

5 GHz Directional Flat Panel Antenna

Electrical Specifications

Diagonal - Directional Flat Panel - Plane Polarized

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

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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.

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

Electrical Specifications

Frequency GHz	Model Number	Size ft	Size (m)	Standard	Gain at Low	Gain at Mid dBi	Gain at 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)†
	SSP4-52A	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)†
	SSD4-52	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.

NOTE:

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

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Antenna Type	Manufacturer	Model Number	Mid-band Gain (dBi)	Notes
1 Foot Flat Panel	Gabriel	DFPD1-52	23.5	
	Andrew	FPA5250D12-N	23.6	
2 Foot Flat Panel	Gabriel	DFPD2-52	28	
	Andrew	FPA5250D24-N	28.2	
	RSI	A57A24-U	26.5	
2 Foot Parabolic	Gabriel	SSP2-52B	28.5	
	Gabriel	SSD2-52A	28.4	
	Gabriel	HSSP2-52	28.1	
	Radio Waves	SP2-5.2	28.3	
	Radio Waves	SPD2-5.2	28.1	
	Andrew	P2F-52	29.4	
	Andrew	PX2F-52	29.4	
	RSI	P-57C24	29	
3 Foot Parabolic	Radio Waves	SP3-5.2	31.4	
	Radio Waves	SPD3-5.2	31.1	
	Andrew	P3F-52	33.4	
	Andrew	PX3F-52	33.4	
4 Foot Parabolic	Gabriel	SSP4-52A	34.2	
	Gabriel	SSD4-52	34.1	
	Gabriel	HSSP4-52	33.9	
	Radio Waves	SP4-5.2	34.6	
	Radio Waves	SPD4-5.2	34.4	
	RSI	P-57B48	34.7	
6 Foot Parabolic	Gabriel	SSP6-52A	37.5	
	Gabriel	SSD6-52	37.4	
	Gabriel	HSSP6-52	37.2	
	Radio Waves	SP6-5.2	37.7	
	Radio Waves	SPD6-5.2	37.5	
	RSI	P-57A72	38.2	
8 Foot Parabolic	Gabriel	SSP8-52	39.8	
	Gabriel	SSD8-52	39.7	
	Gabriel	HSSP8-52	39.6	
	Gabriel	DRFB8-55ASE	40.7	
	RSI	P-57A96	40.8	

Formula for determining maximum output power setting at antenna input for 5.725-5.825 GHz Transmitters (@ EIRP=53dBm):
Max Tx (dBm) is the lesser of the 24.9 Bm and 53 - G
Max Tx (dBm) is the lesser of 24dBm and 30 - G

where: G = Antenna Gain
Tx is the output power measured at the antenna input

Note:
All Proxim radios require professional installation.
Antennas with gain less than 23.5 dBi are not allowed
Antennas of other make may be used with the HZB-U5358-GX1 device, but must be of the same type, dimensions and gain as those listed