



DUAL BAND, DUAL POLARISED, TWIN BEAM ANTENNA GSM1800 65°/17.5dBi, UMTS 65°/17.5dBi TYPE: 2281

- GSM1800/UMTS APPLICATIONS
- LOW-PROFILE RADOME
- SIDELOBE SUPPRESSION

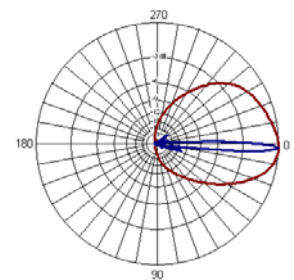
This 'Twin Beam' model has been designed to easily facilitate the addition of UMTS infrastructure to existing GSM1800 networks. It comprises two separate dual-polar antennas side-by-side in a single radome. This configuration reduces visual impact & simplifies installation, providing cost advantages over separate panels.

Model variants are available giving different gain & electrical downtilt to exactly match your site requirements. All models feature an extremely low component count and one-piece PCB. This results in consistently high product quality and reliability, having an excellent intermodulation performance. The mounting brackets enable Tilt or Pan + Tilt options. Two connectors for each band are provided on the base of the unit.

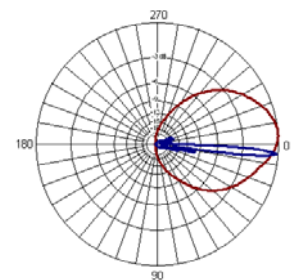


TECHNICAL SPECIFICATION

	GSM1800	UMTS
Frequency	1710 – 1880MHz	1900 - 2170MHz
Gain	17.5dBi	17.5dBi
VSWR	1.4:1 max	1.4:1 max
Horizontal Beamwidth	65°	65°
Vertical Beamwidth	5.8°	7°
Fixed Electrical Downtilt	2°	2°
Upper Sidelobe Suppression	>18dB	>18dB
1 st Null Fill Below Horizon	<18dB	<18dB
Front-to-Back Ratio	>25dB	>25dB
Isolation	30dB typical	30dB typical
Power Rating	200W	200W
Connectors (bottom)	2 x 7/16" DIN	2 x 7/16" DIN
Dimensions (LxWxD)	1700 x 275 x 95 mm	-
Operational Wind Speed	45m/s (160Km/h)	-
Survival Wind Speed	56m/s (200Km/h)	-
Max Wind Loading (front)	481 N @ 45m/s	-
Weight	15kg	-
Temperature Range	- 40°C to + 70°C	-
Bracket Options	Tilt 8° Down 2° Up & Pan (± 45°)	-



GSM1800 (2 DEGREE)



UMTS (4 DEGREE)

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Thales reserve the right to vary in detail from the description and specification in this publication. Issue: 6/01/1