



**Dual Band
Dual Polarised Antenna
Model 2281**

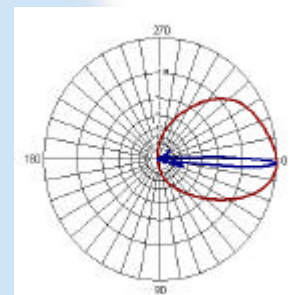
- ❑ **GSM1800/UMTS APPLICATIONS**
- ❑ **LOW-PROFILE RADOME**
- ❑ **SIDELOBE SUPPRESSION**

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

MODEL 2281	GSM1800	UMTS
Frequency	: 1710 – 1880 MHz	1900 - 2170 MHz
Horizontal Beamwidth	: 65°	65°
Vertical Beamwidth	: 5.8°	7°
Gain	: 17.5 dBi	17.5 dBi
VSWR	: 1.4:1 max	1.4:1 max
Fixed electrical downtilt options	: 2, 4, 6, 8 or 10°	2, 4, 6, 8 or 10°
Upper sidelobe suppression	: < -18 dB	< -18 dB
Below horizon null-fill	: 1 st null <18 dB below beam peak	1st null <18 dB below beam peak
Isolation	: 30dB typical	30dB typical
Front-to-back ratio	: >25dB	>25dB
Power handling	: 200 Watts	200 Watts
Connectors	: 2 x 7/16" DIN (socket at bottom)	2 x 7/16" DIN (socket at bottom)
Dimensions	: 1700 mm x 275 mm x 95 mm	
Operational wind speed	: 45 m/s (160 Km/h)	
Survival wind speed	: 56 m/s (200 Km/h)	
Max wind loading (Front)	: 481 N @ 45m/s	
Weight	: 15 Kg	
Temperature Range	: - 40°C to + 70°C	
Bracket Options	: Tilt 8° Down 2° Up & Pan (± 45°)	



GSM1800 (2 DEGREE)

