

## WIDE BAND, DUAL POLARISED ANTENNA VARIABLE ELECTRICAL DOWNTILT GSM1800-UMTS XP/65/17.4/VET 1029-900-01

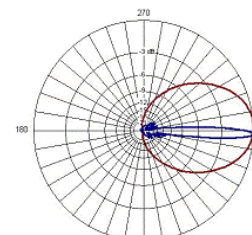
- ❑ **WIDE-BAND 2G / 3G APPLICATIONS**
- ❑ **LOW-PROFILE RADOME**
- ❑ **MAINTAINS ELEVATION BEAM SHAPE**

The 'Wideband Series' of panel antennas from Racal Antennas have been designed to easily facilitate the installation of Third Generation cellular infrastructure into new or existing networks. The introduction of variable electrical beam tilt in this version of the antenna provides excellent control of the elevation radiation pattern over the whole GSM1800 and UMTS band. The tilt angle can be varied using a simple mechanical adjustment, or by using a Remote Electrical Tilt (RET) AISG1 device attached at the base. A slimline radome reduces visual impact and provides an easily installed, robust enclosure. Two RF connectors are provided on the base of the unit.

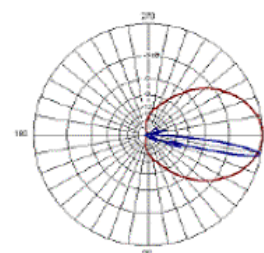


### TECHNICAL SPECIFICATION

<b>Frequency</b>	1710-2170MHz
<b>Gain</b>	17.4dBi
<b>VSWR</b>	1.5:1 max
<b>Horizontal Beamwidth</b>	65°
<b>Vertical Beamwidth</b>	7.2° nominal
<b>Variable Electrical Downtilt</b>	0° to 8°
<b>Tilt Adjustment</b>	Manual at base of antenna. Remote Variable Tilt Available (AISG)
<b>Upper Sidelobe Suppression</b>	18dB typical (15dB max)
<b>Front-to-Back Ratio</b>	>25dB
<b>Isolation</b>	30dB Typical
<b>IMP</b>	<-150dBc 2 x 43dBm carrier
<b>Power Rating</b>	100W
<b>Connectors (bottom)</b>	2 x 7/16 DIN female
<b>Dimensions (LxWxD)</b>	1330 x 162 x 73 mm
<b>Wind Loading</b>	276N @ 45m/s
<b>Operational Wind Speed</b>	45m/s
<b>Survival Wind Speed</b>	56m/s
<b>Weight</b>	6.5kg
<b>Bracket Options</b>	Mechanical tilt ± 10°



Minimum Tilt 0 degrees



Maximum Tilt 8 degrees

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Racal reserve the right to vary in detail from the description and specification in this publication. Issue: 02/05

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