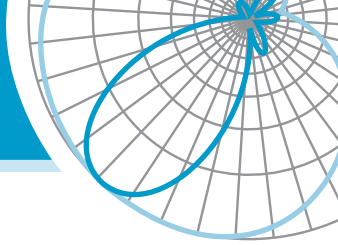


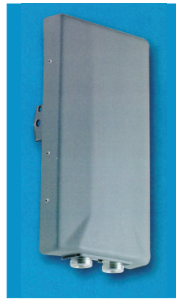
GSM1800



DUAL POLARISED MICROCELL

GSM1800 XP/60/12/0

TYPE 1803



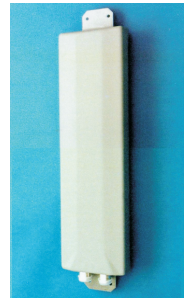
TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	12dBi
VSWR	1.5:1 max
Horizontal Beamwidth	60°
Vertical Beamwidth	33°
Polarisation	+45° and -45°
Fixed Electrical Downtilt	0°
Upper Sidelobe Suppression	>13dB
Front-to-Back Ratio	>24dB
Isolation	>25dB
Power Rating	100W
Connectors	7/16" DIN female bulkhead
Impedance	50Ω
Dimensions (LxWxD)	320 x 164 x 45 mm
Wind Loading	68N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Lightning Protection	DC grounded
Weight	1.6kg
Temperature Range	-55°C to +70°C
Bracket Downtilt	0 - 8° in 2° steps
Bracket Size	To suit pole 48-76mm

DUAL POLARISED PANEL

GSM1800 XP/60/14/0

Type 1880



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	14dBi
VSWR	1.4:1 typical
Horizontal Beamwidth	60°
Vertical Beamwidth	18°
Fixed Electrical Downtilt	0°
Upper Sidelobe Suppression	>14dB
Front-to-Back Ratio	>25dB
Isolation	25dB
Power Rating	200W
Connectors	2 x 7/16" DIN female
Impedance	50Ω
Dimensions (LxWxD)	590 x 164 x 45 mm
Wind Loading	140N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Lightning Protection	DC grounded
Weight	2.3kg
Temperature Range	-40°C to +70°C
Bracket Downtilt	0°-10° or 10°-20° optional
Bracket Size	To suit pole 48-76mm

DUAL POLARISED PANEL

GSM1800 XP/65/15.5/6

Type 1877



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	15.5dBi
VSWR	1.3:1 max
Horizontal Beamwidth	65°
Vertical Beamwidth	10°
Fixed Electrical Downtilt	6°
Upper Sidelobe Suppression	>19dB
Front-to-Back Ratio	>25dB
Isolation	>30dB
Power Rating	150W
Connectors	2 x 7/16" DIN female
Dimensions (LxWxD)	730 x 164 x 45 mm
Wind Loading	280N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	2.5kg
Temperature Range	-55°C to +65°C
Bracket Downtilt	0°-6° or 10°-20°

DUAL POLARISED PANEL

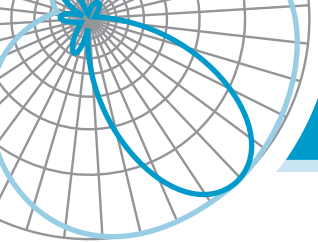
GSM1800 XP/65/16.5/2

Type 100-0025



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	16.5dBi
VSWR	1.4:1 max
Horizontal Beamwidth	65°
Vertical Beamwidth	>10°
Fixed Electrical Downtilt	2°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
1st Null Fill Below Horizon	20dB below beam peak
Isolation	>30dB typical
Connectors (bottom)	2 x 7/16" DIN
Power Rating	150W
Dimensions (LxWxD)	1025 x 196 x 39 mm
Wind Loading	191N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	8kg antenna, 4.5kg brackets
Temperature Range	-40°C to +70°C
Bracket Tilt	8° down, 2° up



GSM1800

DUAL POLARISED PANEL

GSM1800 XP/65/18/2 or 5

Type 100-0010/17



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	18dBi
VSWR	1.4:1 max
Horizontal Beamwidth	65°
Vertical Beamwidth	>5°
Fixed Electrical Downtilt	100-0010 - 2°, 100-0017 - 5°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
1 st Null Fill Below Horizon	20dB below beam peak
Isolation	>30dB typical
Power Rating	250W
Connectors	2 x 7/16" DIN female (bottom)
Dimensions (LxWxD)	1695 x 196 x 39 mm
Wind Loading	339N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	6.6kg antenna, 4.5kg brackets
Temperature Range	-40°C to +70°C
Bracket Tilt	8° down, 2° up

DUAL POLARISED PANEL

GSM1800 XP/60/18/2, 4 or 6

Type 1865, 1866, 1867



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	18dBi
VSWR	1.4:1 max
Polarisation	+45° and -45°
Horizontal Beamwidth	65°
Vertical Beamwidth	8°
Fixed Electrical Downtilt	1865 - 2°, 1866 - 4°, 1867 - 6°
Upper Sidelobe Suppression	>19dB
Front-to-Back Ratio	>25dB
Isolation	>28dB
Connectors	2 x 7/16" DIN female bulkhead
Power Rating	250W
Impedance	50Ω
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Mechanical Tilt	0-10° or 10°-20°
Wind Loading	312N @ 45m/s
Bracket Downtilt	0°-10° or 10°-20°
Dimensions (LxWxD)	1260 x 164 x 45 mm
Weight	3.8kg
Temperature Range	-55°C to +65°C

DUAL POLARISED PANEL

GSM1800 XP/65/18.5/2

Type 100-0032



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	18.5dBi
VSWR	1.4:1 Max
Horizontal Beamwidth	65°
Vertical Beamwidth	>5°
Fixed Electrical Downtilt	2°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
1 st Null Fill Below Horizon	20dB below beam peak
Isolation	30dB typical
Power Rating	250W
Connectors (bottom)	2 x 7/16" DIN female
Dimensions (LxWxD)	1951 x 196 x 39 mm
Wind Loading	367N @ 45m/s
Operational Wind Speed	45 m/s
Survival Wind Speed	56 m/s
Weight	8kg antenna, 4.5kg brackets
Temperature Range	-40°C to +70°C
Bracket Tilt	8° down, 2° up

DUAL POLARISED TWINBEAM PANEL

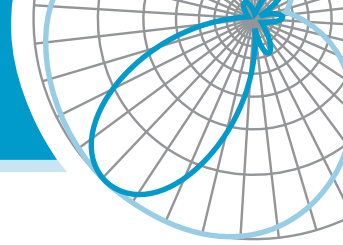
GSM1800 XP/65/17.5/2

Type 1003



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	2 X 17.5dBi
VSWR	1.4:1 Max
Horizontal Beamwidth	2 X 65°
Vertical Beamwidth	5.8°
Fixed Electrical Downtilt	2°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power Rating	160W
Connectors	4 x 7/16" DIN female (bottom)
Dimensions (LxWxD)	1700 x 295 x 78 mm
Wind loading	481N @ 45m/s
Operational Wind Speed	45 m/s
Survival Wind Speed	56 m/s
Weight	15kg antenna, 5kg brackets
Temperature Range	-40°C to +70°C
Mechanical Downtilt	±10°



DUAL POLARISED MICROCELL GSM1800 XP/85/6/0 Type 1679



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	6dBi
VSWR	1.3:1 typical
Horizontal Beamwidth	85°
Vertical Beamwidth	80°
Polarisation	+45° and -45°
Fixed Electrical Downtilt	0°
Isolation	30dB
Power Rating	20W
Connectors	2 x N type female bulkhead
Impedance	50Ω
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Dimensions (LxWxD)	230 x 188 x 80 mm
Lightning Protection	DC grounded
Weight	0.8kg
Temperature Range	-55°C to +65°C
Bracket	Wall mounting

DUAL POLARISED PANEL GSM1800 XP/85/16.5/6 Type 100-0021



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	16.5dBi
VSWR	1.4:1 max
Horizontal Beamwidth	85°
Vertical Beamwidth	>6°
Fixed Electrical Downtilt	6°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power Rating	250W
Connectors	2 x 7/16" DIN female (bottom)
Dimensions (LxWxD)	1554 x 196 x 39 mm
Wind Loading	294N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	7kg antenna, 4.5kg brackets
Temperature Range	-40°C to +70°C
Bracket Tilt	8° down, 2° up

DUAL POLARISED PANEL GSM1800 XP/85/17.5/2, 5 or 8 Type 100-0008/9&31



TECHNICAL SPECIFICATION

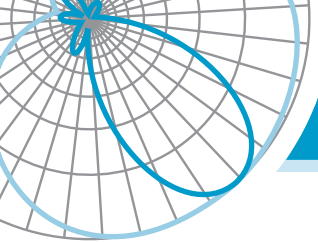
Frequency	1710-1880MHz
Gain	17.5dBi
VSWR	1.4:1 max
Horizontal Beamwidth	85°
Vertical Beamwidth	>5°
Fixed Electrical Downtilt	100-0008 - 2°, 100-0009 - 5° 100-0031 - 8°
Upper Sidelobe Suppression	>18dB
1 st Null Fill Below Horizon	20dB below beam peak
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power rating	250W
Connectors (bottom)	2 x 7/16" DIN
Dimensions (LxWxD)	1951 x 196 x 39 mm
Wind loading	367N @ 45m/s
Operational wind speed	45m/s
Survival wind speed	56m/s
Weight	8 Kg antenna, 4.5Kg brackets
Temperature Range	-40°C to +70°C
Bracket tilt	8° down, 2° up

DUAL POLARISED MICROCELL GSM1800 XP/142/8.5/0 Type 100-0027/28/29



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	8.5dBi
VSWR	1.4:1 max
Horizontal Beamwidth	142°
Vertical Beamwidth	33°
Fixed Electrical Downtilt	0°
Front-to-Back Ratio	>25dB
Upper Sidelobe Suppression	>18dB
Isolation	30dB typical
Power Rating	250W
Connectors	100-0027 : 2xN female back 100-0028 : 2xN female top 100-0029 : 2xN female bottom
Dimensions (LxWxD)	400 x 200 x 140 mm
Wind Loading	106N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	2kg
Temperature Range	-55°C to +65°C



GSM1800

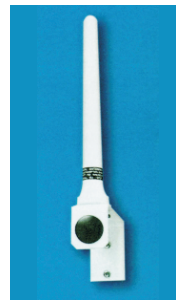
DUAL POLARISED TWINBEAM MICROCELL GSM1800 XP/2 x 70/11/0 Type 100-0030



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	11dBi
VSWR	1.4:1 max
Polarisation	+45°/-45°
Horizontal Beamwidth	2×70°
Vertical Beamwidth	35°
Fixed Electrical Downtilt	0°
Front-to-Back Ratio	>25dB
Isolation	>20dB (1710-1785 MHz) >25dB (1820-1850 MHz)
Power Rating	100W
Connectors	4 x N female bottom
Dimensions (LxWxD)	400 x 200 x 140 mm
Wind Loading	106N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	2kg
Temperature Range	-55°C to +65°C
Brackets	Wall mounting plates

VERTICALLY POLARISED OMNIDIRECTIONAL GSM1800 VP/360/2/0 Type 1770



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	2dBi
VSWR	1.3:1 max
Horizontal Beamwidth	360°
Vertical Beamwidth	80°
Fixed Electrical Downtilt	0°
Power Rating	10W
Connectors	N type female
Impedance	50Ω
Dimensions (LxØ)	150 x 20 mm
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Lightning Protection	DC grounded
Weight	80g
Temperature Range	-30°C to +70°C
Bracket Size	Simple wall bracket supplied

VERTICALLY POLARISED OMNIDIRECTIONAL GSM1800 VP/360/10/0 Type 1660



TECHNICAL SPECIFICATION

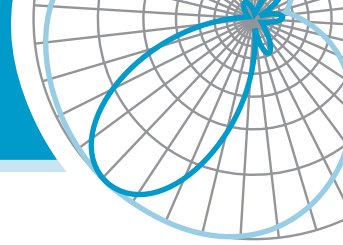
Frequency	1710-1880MHz
Gain	10dBi
VSWR	1.5:1 max
Horizontal Beamwidth	360°
Vertical Beamwidth	8°
Electrical Downtilt	0°
Upper Sidelobe Suppression	>20dB
Power Rating	200W
Connectors	7/16" DIN female
Impedance	50Ω
Dimensions (LxØ)	1800 x 51 mm
Wind Loading	136N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Lightning Protection	DC grounded
Weight	2.5kg
Temperature Range	-55°C to +70°C
Bracket Size	To suit pole 89-114mm

DUAL POLARISED OMNIDIRECTIONAL & Flange GSM1800 XP/360/10/3 or 5 Type 103-0002 & 103-0006



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	10dBi
VSWR	1.4:1 max
Horizontal Beamwidth	360°
Vertical Beamwidth	6.25°
Fixed Electrical Downtilt	103-0002 - 3°, 103-0006 - 5°
Upper Sidelobe Suppression	>18dB
Isolation	30dB typical
Power Rating	250W
Connectors	2 x 7/16" DIN female
Dimensions (LxØ)	1709 x 168mm
Wind Loading	248N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	18.5kg antenna, 4.5kg interface
Temperature Range	-55°C to +70°C
Flange	282mm mounting flange 358mm flange. In-line mounting



DUAL POLARISED BI-SECTOR GSM1800 XP/2-65/18/2 Type 1030



TECHNICAL SPECIFICATION

Frequency	1710-1880MHz
Gain	2x18dBi
VSWR	1.4:1 max
Horizontal Beamwidth	2x65°
Vertical Beamwidth	>5°
Fixed Electrical Downfilt	2°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power Rating	250W
Connectors	2 x 7/16" DIN female (4 in total)
Dimensions (L x Ø)	1709 x 168 mm
Wind Loading	248N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	17.0kg
Temperature Range	-55°C to +70°C
Flange	Small, large or in-line mount available

DUAL POLARISED TRISECTOR GSM1800 XP/3-65/18/2, 4 or 6 Type 103-0001, 4, 20



TECHNICAL SPECIFICATION

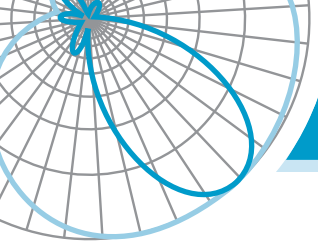
Frequency	1710-1880MHz
Gain	3 x 18dBi
VSWR	1.4:1 max
Horizontal Beamwidth	3 x 65°
Vertical Beamwidth	>5°
Fixed Electrical Downfilt	2°, 4° or 6°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power Rating	250W
Connectors	6 x 7/16" DIN female
Dimensions (LxØ)	1709 x 168 mm
Wind Loading	248N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	18.5kg
Temperature Range	-55°C to +70°C
Flange	103-0001 - small flange 103-0004 - large flange 103-0020 - in-line flange
Individual Array Downfilt	2, 4 or 6 in any combination, Please specify on order

DUAL POLARISED DISGUISED GSM1800 XP/3-65/18/2 Type 103-0009 to 15



TECHNICAL SPECIFICATION

Frequency	1710-1880 MHz
Gain	3 x 18dBi
VSWR	1.4:1 max
Horizontal Beamwidth	3 x 65°
Vertical Beamwidth	>5°
Fixed Electrical Downfilt	2°
Upper Sidelobe Suppression	>18dB
Front-to-Back Ratio	>25dB
Isolation	>30dB typical
Power Rating	250W
Connectors	6 x 7/16" DIN female
Dimensions (LxØ)	1709 x 168 mm
Wind Loading	248N @ 45m/s
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Weight	18.5kg antenna only
Temperature Range	-55°C to +70°C
Flagpole Heights	103-0009-7m, 3 guys; 103-0010 - 6m, 3 guys; 103-0011-5m, 3 guys; 103-0012 - 7m, 4 guys 103-0013-6m, 4 guys; 103-0014 - 5m, 4 guys; 103-0015-antenna only, flagpole style 103-0014 - 5m, 4 guys 103-0015-antenna only, flagpole style



GSM1800

DUAL POLARISED WIDEBAND

VARIABLE ELECTRICAL DOWNTILT ANTENNA

GSM1800/UMTS XP/65°/20/2°

Type 5201



TECHNICAL SPECIFICATION	GSM1800 + UMTS
Frequency	1710- 2170MHz
Gain	20.0dBi
VSWR	<1.5:1
Horizontal Beamwidth	65°
Vertical Beamwidth	4.0°
Elevation Downtilt	2°
Upper Sidelobe Suppression	>15dB
Front-to-Back Ratio	>25dB
Inter-Port Isolation	>30dB
3 rd Order PIM @ 2 x 20W	-150dBc
Power Rating	250W
Impedance	50Ω
Connectors (bottom)	2 x 7/16" DIN
Dimensions (L x W x D)	2350 x 150 x 120mm
Survival Wind Speed	208 km/h
Max Wind Loading (Front)	850N @160km/h
Weight (antenna only)	10Kg
Temperature Range	-40°C to +60°C
Mounting Options	-2° to +6° in 1° steps

WIDE BAND, DUAL POLARISED ANTENNA

GSM1800/UMTS/65/11.5/0

Type 5308



TECHNICAL SPECIFICATION	
Frequency	1710- 2170MHZ
Gain	11.5dBi
VSWR	<1.5:1
Horizontal Beamwidth	65°
Vertical Beamwidth	33°
Elevation Downtilt	0° (other tilt options available)
Upper Sidelobe Suppression	>14dB
Front-to-Back Ratio	>24 dB @ ± 180° azimuth
Inter-Port Isolation	>30dB
3 rd Order PIM @ 2 x 20W	-150dBc
Power Rating	250W
Impedance	50Ω
Connectors (bottom)	2 x 7/16" DIN
Dimensions (L x W x D)	320 x 142 x 43mm
Operational Wind Speed	45m/s
Survival Wind Speed	56m/s
Max Wind Loading (Front)	68N @ 45m/s
Weight (antenna only)	2.5Kg
Temperature Range	-55°C to +70°C
Mounting Options	Tilt ± 10° To suit 48-76 mm pole

www.inotekantennas.com

UK

INOTEK ANTENNAS LTD

54 Ashdown Road, Eastleigh Hampshire, SO53 5QJ, United Kingdom

Tel: +44 (0) 2380 254289, Fax: +44 (0) 2380 254289

e-mail : info@inotekantennas.com

India

INOTEK ANTENNAS INDIA PVT LTD

'Himanchal' Nalanda Nagar W. N. 6, Wardha 442 001 (MS) India

Tel: +91 (0) 7152 249448, Fax: +91 (0) 7152 249448

e-mail : sales@inotekantennas.com