Siretta

Enabling Industrial IoT

Oscar 17

2G/(GSM/GPRS) & 3G/(UMTS) Omnidirectional Antenna

Key Features

- European GSM/GPRS/UMTS
- 10dBi gain
- Omnidirectional

General Description

The Oscar 17 is an Omni-directional wall / bracket mount antenna, operating on quad band GSM/GPRS and 3G/UMTS frequencies.

Its high quality monopole design provides a peak gain of 10dBi within its operating frequency range for improved site communication.

Supplied with a lightweight, durable aluminium mounting bracket, the antenna is designed for outdoor use to improve cellular signal strength reception and transmission.

Common applications for the Oscar 17 include, base station, remote monitoring and alarm/security systems.

Cable assemblies to match the antenna and device connections are available from Siretta in the RF Cables Section.

Additional Considerations

- Ideal base station antenna
- Selection of cable assemblies available - see website

O	2G	3G
Wall/Pole	GSM	UMTS

Rev 1.7

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Electrical Specifications

Temperature range:	-40 - +80°C
Impedance:	50 Ohm
Gain:	10 dBi
VSWR:	<1.9
Max power:	50W
Frequency range:	GSM 900/1800/1900/2100
Polarization:	Linear Vertical
HPVW / Horizontal:	360°
HPBW / Vertical:	8°
Humidity:	100% @ 25°C

Mechanical Specifications

Dimensions:	L850 x W34mm Ø
Connector:	TNC Female

850 mm
34.0
21.70

VSWR

1	900.00000 MHz	1.334	U
2	1.800000 GHz	1.185	U
3	1.900000 GHz	1.332	U
• 4	2.100000 GHz	1.845	U

Trc1 S11 SWR 1 U / Ref 1 U Cal Offs   Mem2[Trc1] S11 SWR 1 U / Ref 1 U   Invisible   1

Ch1 Center 3.0000045 GHz   Pwr -10 dBm   Span 5.999991 GHz

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Return Loss

	1	900.00000 MHz	-17.041	dB
	2	1.800000 GHz	-21.170	dB
	3	1.900000 GHz	-16.697	dB
•	4	2.100000 GHz	-10.478	dB

Trc1 S11 dB Mag 5 dB / Ref 0 dB Cal Offs
Mem2[Trc1] S11 dB Mag 5 dB / Ref 0 dB Invisible

Ch1 Center 3.0000045 GHz   Pwr -10 dBm   Span 5.999991 GHz
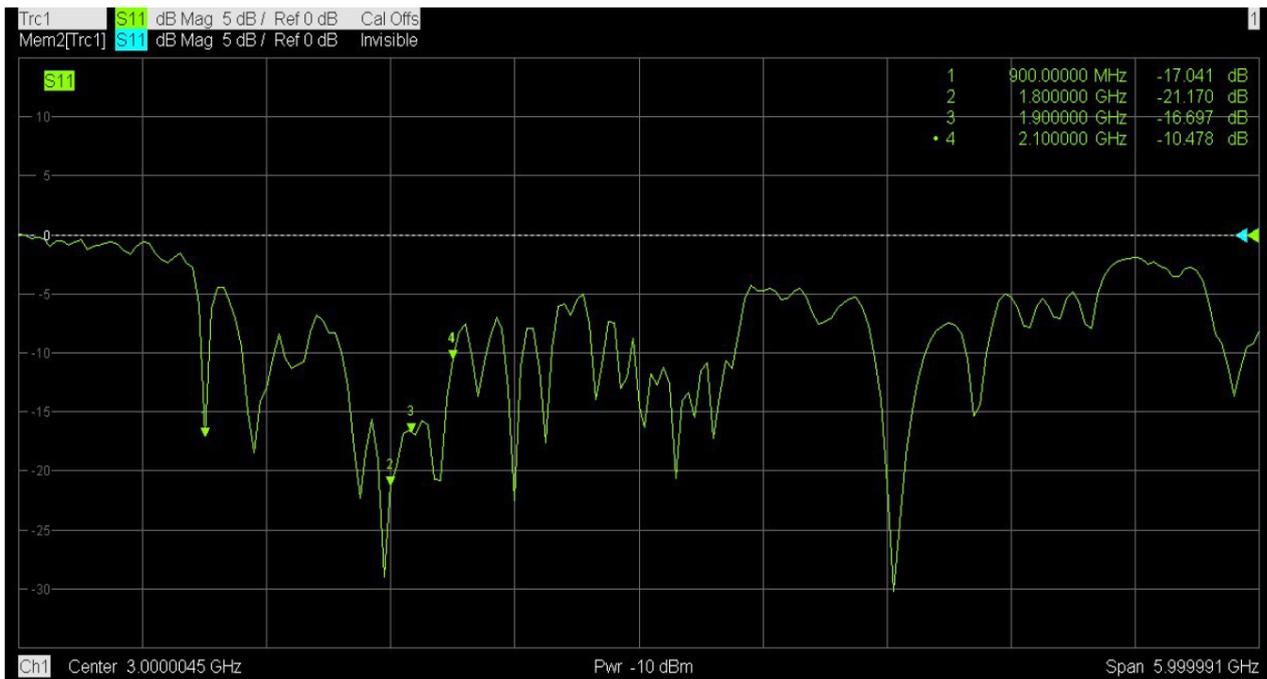
Radiation Plots

E Plane 900MHz
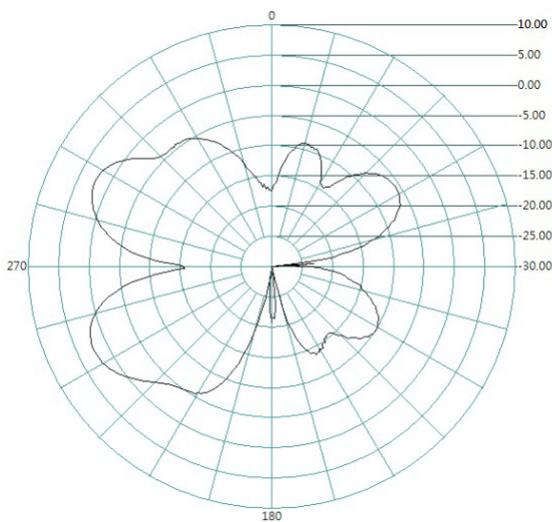
H Plane 900MHz

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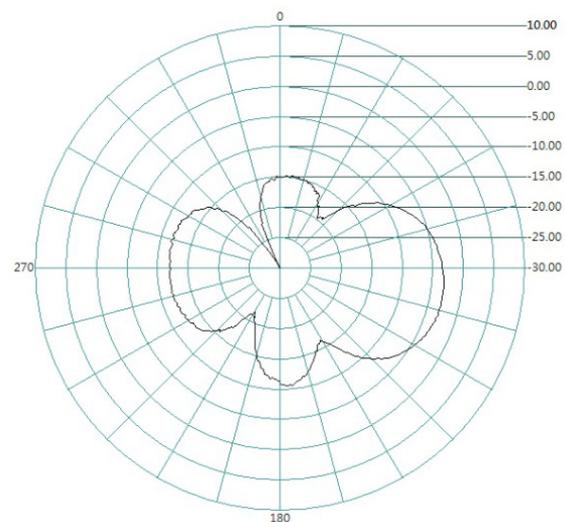
Oscar 17
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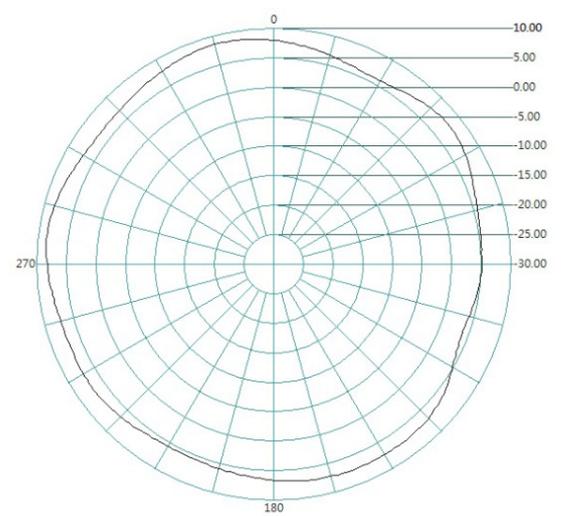
Radiation Plots

E Plane 1800MHz
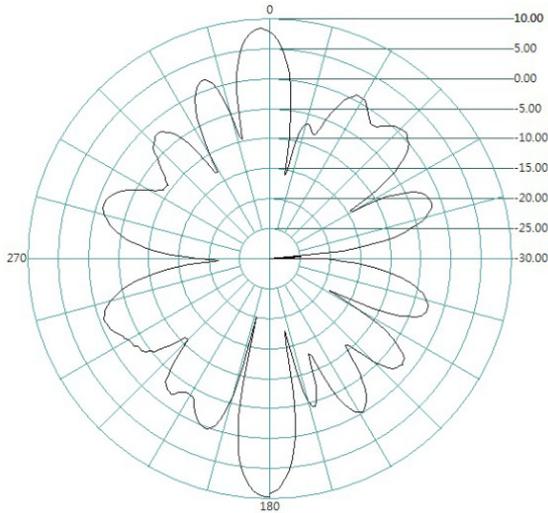
H Plane 1800MHz
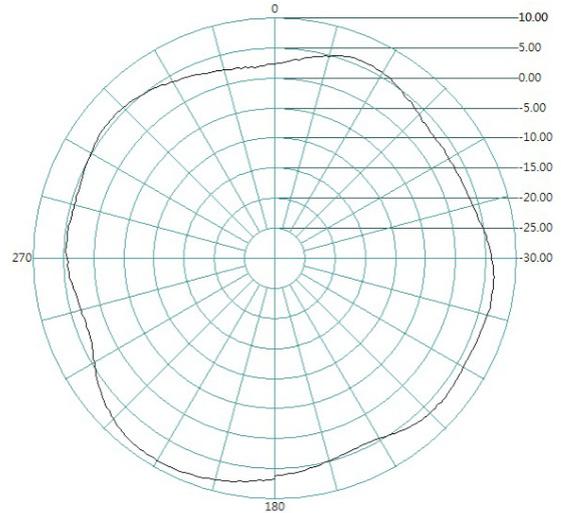
E Plane 1900MHz
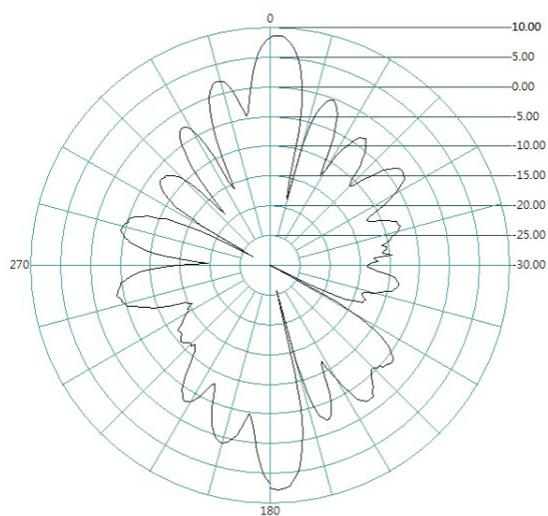
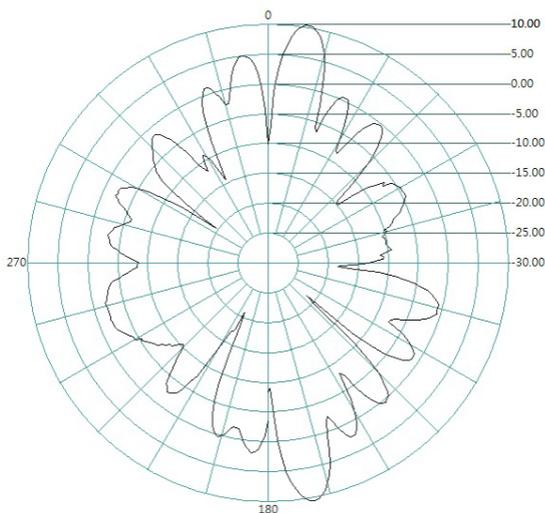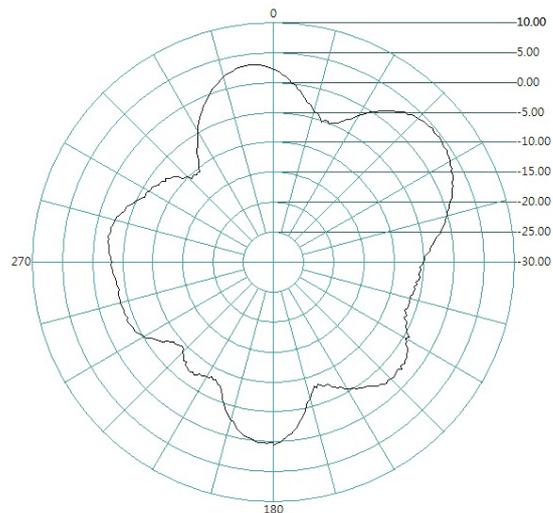### H Plane 1900MHz

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Radiation Plots

E Plane 2100MHz

H Plane 2100MHz

Ordering Details

Part Number	Description
OSCAR17/X/TNC/S/S/19	GSM/GPRS & 3G Omnidirectional Antenna
ASMZG1000A058L13	TNC Male to SMA Male 10m RG58 low loss cable assembly