



## Key Features

- Compact size
- Flexible connector and cable options
- Wide frequency range
- Ground plane independent
- RoHS compliant

## General Description

Siretta multi purpose PCB antennas are based on an efficiently tuned PCB Element that is matched and embedded to work with a wide variety of RF & M2M modules operating on cellular and 2.4GHz ISM band frequencies.

Proven in many embedded applications, it is groundplane independent and compact making it a popular choice where a small size is important. Its wide ranging connector and cable options makes it a convenient antenna for a quick design in whilst the miniature design allows it to fix to the inside of an enclosure or side of PCB.

Measuring just 35mm by 6mm, the Echo 1 series can be supplied with various cable and connector options listed in the table overpage.

## Additional Considerations

- 35mm x 6mm allows easy integration into small devices.
- Allows easy selection and quick integration into target application.
- Works with quad band GSM / GPRS devices, 3G and 2.4GHz modules.
- Can be mounted on a wide range of surfaces or to float inside equipment.
- Meets all EU compliance criteria for electronic goods.

Rev 1.0

**Key Specifications - Electrical**

Temperature range:	-40 to 85°C
Impedance:	50 ohm
VSWR:	<2.5:1
Operating frequency:	GSM / GPRS: 850, 900, 1800, 1900MHz 3G: 2.1GHz ISM: 868MHz, 2.4GHz
Polarization:	Vertical
Radiating element:	1/4 wave dipole

**Key Specifications - Mechanical**

Dimensions:	35mm x 6mm x 0.8mm (without cable)
Cable:	Please refer to options table below
Connector:	Please refer to options table below
Mounting method:	None - internal use

**Ordering Details:**

New part number	Old part number	Description
ECHO1/0.1M/UFL/1	ANTA2010G0000AQ1	Multi band PCB antenna with 100mm cable & UFL connector
ECHO1/0.15M/UFL/1	ANTH7015G0000GQ1	Multi band PCB antenna with 150mm cable & UFL connector
ECHO1/0.2M/UFL/1	ANTH7020G0000GQ1	Multi band PCB antenna with 200mm cable & UFL connector
ECHO1/0.3M/UFL/1	ANTH7030G0000GQ1	Multi band PCB antenna with 300mm cable & UFL connector
ECHO1/0.075M/MMCX/S/RA/1	ANTH7007K0000GQ1	Multi band PCB antenna with 75mm MMCX at right angle connector
ECHO1/0.1M/MMCX/S/RA/1	ANTH7010K0000GQ1	Multi band PCB antenna with 100mm cable & MMCX right angle connector
ECHO1/0.15M/MMCX/S/RA/1	ANTH7015K0000GQ1	Multi band PCB antenna with 150mm cable & MMCX right angle connector
ECHO1/0.2M/MMCX/S/RA/1	ANTH7020K0000GQ1	Multi band PCB antenna with 200mm cable & MMCX right angle connector
ECHO1/0.3M/MMCX/S/RA/1	ANTH2030K0000GB1	Multi band PCB antenna with 300mm cable & MMCX right angle connector
ECHO1/0.1M/GSC/1	ANTA2010I0000AQ1	Multi band PCB antenna with 100mm cable & GSC (MCF) connector
ECHO1/0.15M/GSC/1	ANTH7015I0000GQ1	Multi band PCB antenna with 150mm cable & GSC (MCF) connector
ECHO1/0.2M/GSC/1	ANTH7020I0000GQ1	Multi band PCB antenna with 200mm cable & GSC (MCF) connector
ECHO1/0.3M/GSC/1	ANTH7030I0000GQ1	Multi band PCB antenna with 300mm cable & GSC (MCF) connector
ECHO1/0.2M/SMAM/S/S/1	ANTH7020A0000AB1	Multi band PCB antenna with 200mm SMA connector

**NOTE:** From 2012 please use the new part number

Siretta is a division of Sequoia Technology Group Ltd

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