Key Features

- GPS Active
- LNA gain of 27dB
- Centre frequency of 1575.42MHz
- Small footprint: 18 x 18mm

General Description

The Echo 26A is an active, embedded GPS antenna, measuring at 18 x 18 x 7.45mm. This high gain ceramic patch antenna is perfect for GPS applications designed to include embedded solutions that can still produce high levels of performance despite its small form factor. With its built in Low Noise Amplifier (LNA), this active GPS antenna produces an impressive peak gain of 27dB that drives strong satellite signal reception and transmission strength as well as influencing a quick time to fix to satellites.

These two factors are vital for a GPS system to maintain live positional information, especially when the signal from the satellite is weak. Common applications include: vehicle/fleet/asset tracking, mobile applications and general position services.

Additional Considerations

- Built in LNA (Low Noise Amplifier) that produces high gain potential
- Ceramic filter to reduce noise
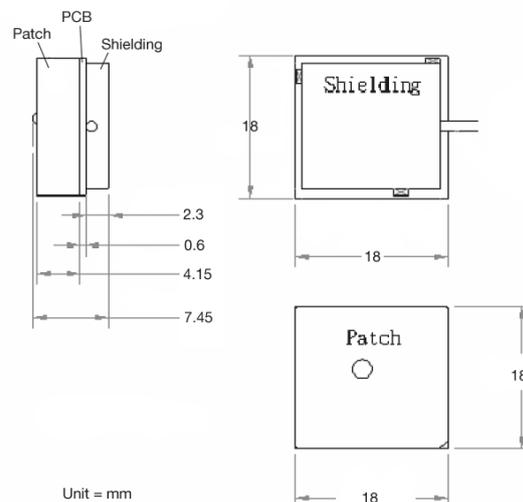- Small footprint allows integration into tight spaces
- 1.13mm cable type

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Rev 1.0

Siretta
Inspired Wireless M2M Technology

airCONNECT

Echo 26A
18 x 18mm GPS Internal Active Antenna

Key Specifications - Electrical

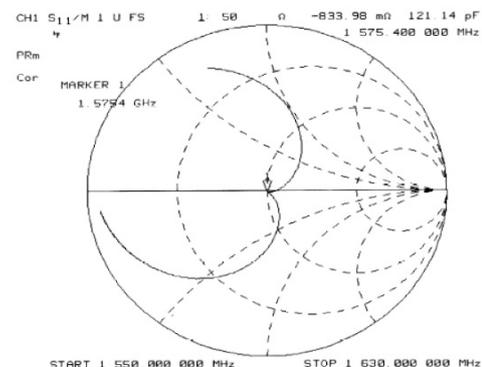|	
Operating temperature:	-40 to +90°C
Relative humidity:	10 to 95%
Impedance:	50 ohm
Gain:	27dB typical
VSWR:	<2.0 :1 Max
Supply voltage:	2.3~5.5V DC
Current consumption:	2.5V - 6.6mA 3V - 8.6mA 4V - 12.6mA 5V - 16mA
Centre frequency:	1575.42MHz ± 1.023 MHz
Bandwidth:	10MHz
Polarization:	RHCP
Noise figure:	1.5dB typ
Ex-band attentuation SAW:	30dB min @fo±50MHz 35dB min @fo±100MHz

Key Specifications - Mechanical

Dimensions:	18 x 18 x 7.45mm
Cable:	1.13mm
Connector:	IPEX
Mounting:	Internal

Patch
PCB
Shielding

Shielding

18

2.3
0.6
4.15
7.45

18

Patch

18

18

Unit = mm

Return Loss

CH2 S11/M log MAG   10 dB/   REF 0 dB   1:-30.488 dB
1 575.400 000 MHz
MARKER 1
1.5754 GHz
PRm
Cor
START 1 550.000 000 MHz   STOP 1 630.000 000 MHz

Smith Chart

CH1 S11/M 1 U FS   1: 50   Ω -833.98 mΩ 121.14 pF
1 575.400 000 MHz
PRm
Cor
MARKER 1
1.5754 GHz
START 1 550.000 000 MHz   STOP 1 630.000 000 MHz

Radiation Patterns

1575 MHz
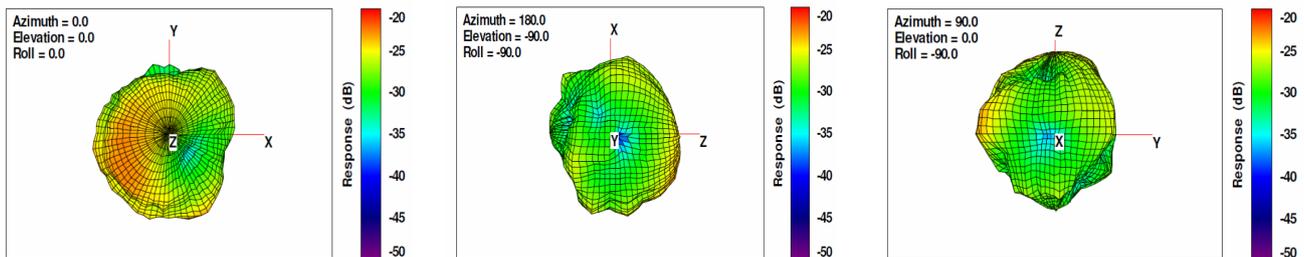
1575.42 MHz
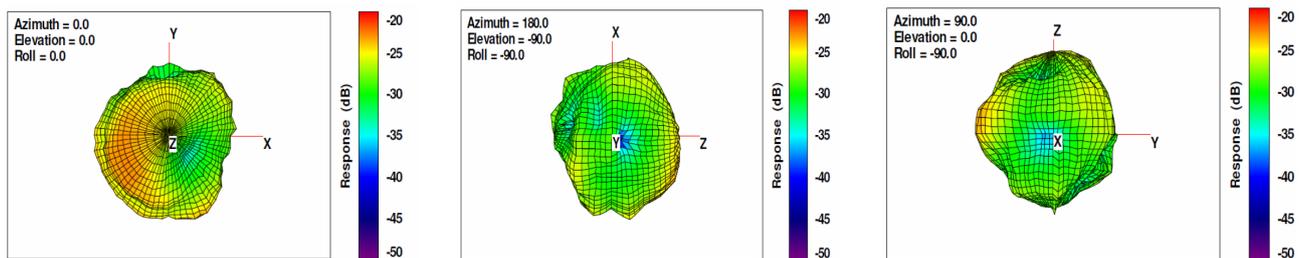
Ordering Details:

Part number	Description
ECHO26A/0.1M/IPEX/S/S/15	GPS Internal Active Antenna, 100mm Cable, IPEX Connector