

GPS Antenna Options

Masterclock offers three antenna options for GPS-enabled devices, available for both standard and mobile applications.

ANTENNA OPTIONS

	Basic Antenna	Standard Antenna	High-Gain Antenna
Type	Active, External	Active, External	Active, External
Gain	28 ± 2 dB	28 ± 2 dB	40 ± 4 dB
Mount	Magnet/Adhesive	Outdoor, threaded pipe/mast. M24 x 1.5 internal thread - Mounting kit provided	Metal mounting kit provided, per user specifications
Operating Temp.	-40° to 85°C (up to 95% humidity)	-40° to 85°C (up to 95% humidity)	-40° to 85°C (up to 95% humidity)
Voltage	2.2-5 V	3-5 V	3.3-9 V
Polarization	Right hand circular	Right hand circular	Right hand circular
Impedence	50 Ω	50 Ω	50 Ω
Connector	SMA Female	SMA Female	SMA Female
Antenna Cable	Belden 8219 or equivalent	Belden 8219 or equivalent	Belden 8219 or equivalent
Weight	0.9 oz (26 g)	6.7 oz (190 g)	9.6 oz (272 g)
Dimensions	1.5 x 1.9 x .59 in (39 x 49 x 15 mm)	3.7dia x 5.5h in (9.3dia x 14h cm)	3.2dia x 5.0h in (8.1dia x 12.6h cm)



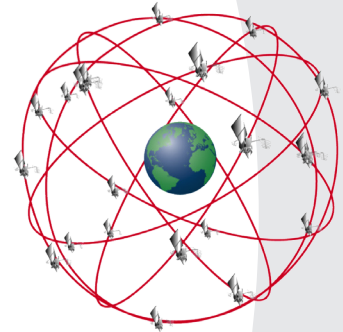
High-Gain Antenna



Standard Antenna



Basic Antenna



OPTIONAL CABLE PACKAGES

Package #	Length	Cable
1	75 ft (23 m)	0.25 in (0.6 cm) coax
2	100 ft (30 m)	0.5 in (1.3 cm) coax
3	150 ft (45 m)	0.5 in (1.3 cm) coax
4	200 ft (61 m)	0.5 in (1.3 cm) coax
5	250 ft (76 m)	0.5 in (1.3 cm) coax
6	300 ft (91 m)	0.5 in (1.3 cm) coax
7	350 ft (106 m)	0.5 in (1.3 cm) coax
8	400 ft (122 m)	0.5 in (1.3 cm) coax
9	450 ft (137 m)	0.5 in (1.3 cm) coax
10	500 ft (152 m)	0.5 in (1.3 cm) coax

Cable lengths of 50 ft (15 m) to 500 ft (150 m) of 0.5 in (1.3 cm) coax cable available on per ft/m basis..

FEATURES

- > Stratum 1 synchronization via satellite constellations
- > Receive time signals from up to 24 satellites
- > Accurate reference to within ± 15 ns of UTC
- > Provides most accurate external time source for Masterclock devices
- > Compact antenna designs for portable applications
- > Optional magnetic-mount or standard-mount antennas
- > Antenna cable lengths up to 500 ft (152 m) available
- > In-line surge arrestors and in-line GPS amplifiers available
- > Antenna pigtail available
- > All cable packages use SMA-M connectors

MASTERCLOCK, INC.

5-YEAR LIMITED PARTS & LABOR WARRANTY

MADE IN THE USA

phone (USA and Canada):
1-800-940-2248

phone (international):
+1-636-724-3666

email:
sales@masterclock.com

online:
www.masterclock.com