



# GPS/GNSS Antenna Options

Masterclock offers several antenna options for GPS/GNSS-enabled devices, available for both standard and mobile applications. Our GNSS (global navigation satellite system) antennas comprise all common global satellite services such as GPS, GLONASS, GALILEO and BeiDou.



	Basic	Standard	High-Gain	Anti-Jam High-Gain
<b>Type</b>	Active, External	Active, External	Active, External	Active, External
	GPS	GPS	GNSS	GNSS
<b>Band</b>	GPS/QZSS-L1	GPS/QZSS-L1	GPS/QZSS-L1, GLONASS-G1, Galileo-E1, and BeiDou-B1	GPS/QZSS-L1, GLONASS-G1, Galileo-E1, and BeiDou-B1
<b>(SBAS) Augmentation</b>	WAAS (North America)	WAAS (North America)	WAAS (North America), EGNOS (Europe), MSAS (Japan), or GAGAN (India)	WAAS (North America), EGNOS (Europe), MSAS (Japan), or GAGAN (India)
<b>Gain</b>	28 ± 2 dB	28 ± 2 dB	38 dB min	38 dB min
<b>Mount</b>	Magnet/Adhesive	Outdoor, threaded pipe/mast. M24 x 1.5 internal thread - Mounting kit provided	Metal mounting kit provided, Ground plate optional	Metal mounting kit provided
<b>IP Rating</b>	IP67 weather-proof enclosure	IP67 weather-proof enclosure	IP67 weather-proof enclosure	IP67 weather-proof enclosure
<b>Operating Temp.</b>	-40° to 85°C (up to 95% humidity)	-40° to 85°C (up to 95% humidity)	-40° to 85°C (up to 95% humidity)	-40° to 85°C (up to 95% humidity)
<b>Voltage</b>	2.2-5 VDC	3-5 VDC	2.5-12 VDC	2.5-12 VDC
<b>Polarization</b>	Right hand circular	Right hand circular	Right hand circular	Right hand circular
<b>Impedence</b>	50 Ω	50 Ω	50 Ω	50 Ω
<b>Connector</b>	SMA Male	SMA Female	N Female (Supplied with N to SMA-F Adapter)	TNC Female (Supplied with TNC to SMA-F Adapter)
<b>Antenna Cable Pkg</b>	Belden 8219 or equivalent	Belden 8219 or equivalent	Belden 8219 or equivalent	Belden 8219 or equivalent
<b>Weight</b>	0.9 oz (26 g)	6.7 oz (190 g)	5.3 oz (150 g)	13.0 oz (370 g)
<b>Dimensions</b>	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)	2.6dia x 1.9h in (6.7dia x 4.8h cm)	4.0dia x 4.0h in (10.0dia x 10.2h cm)

**5-YEAR LIMITED PARTS & LABOR WARRANTY**      **MADE IN THE USA**

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