
GPS/GNSS Repeaters for Indoor Satellite Signal Reception

- Ultra High Sensitivity
- High Gain Antennas
- Compact Size
- IP66 rating
- External Re-Radiator
- 10m/30m Re-Radiating
- 40m RF Cable

ADA-104/ADA-304 is a series of complete GPS L1 band signal re-radiating system with one outdoor antenna to re-transmit real-time GPS satellite reception to an indoor environment.

The system kits include a high gain external GPS antenna, a precisely calibrated amplifier circuit with helix type re-radiator, a 40m RF cable and a built-in power supply regulator.

ADA-106/ADA-306 has the same functionality but for both GPS L1 and GLONASS L1



RoHS/Reach

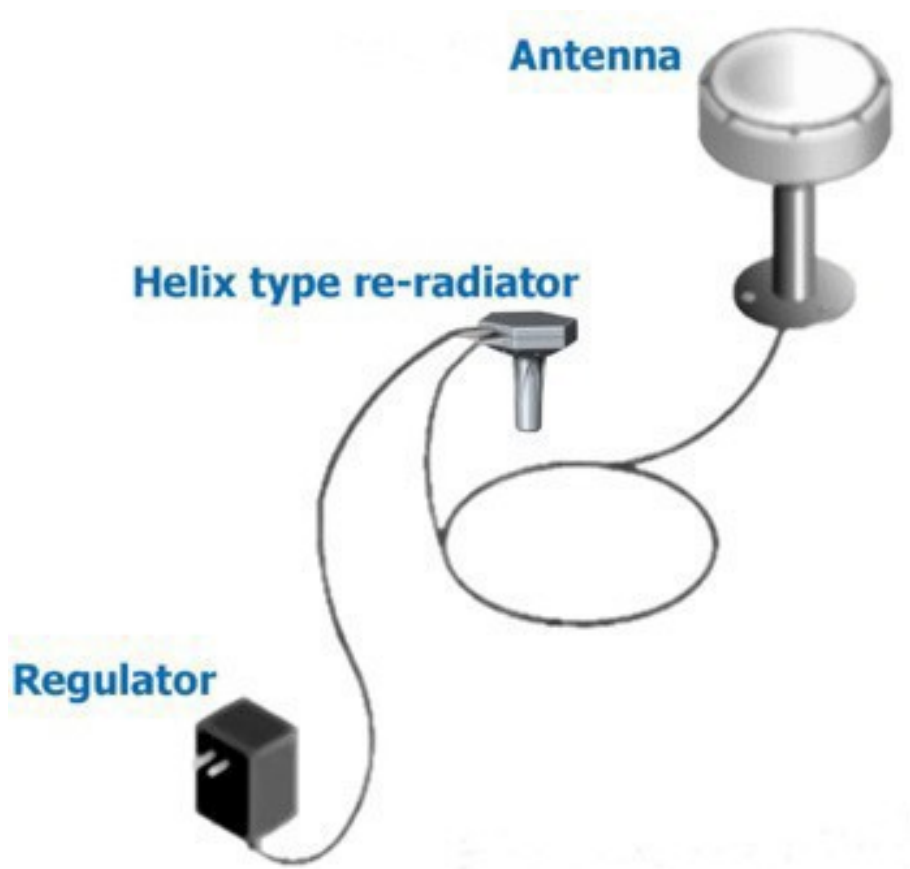
Specification ADA-104/ADA-304

Antenna	Specification
Frequency	1575.42 MHz
Gain	+5.0 dBic typ at Zenith, @ 10dgr Elevation -5dBic
Polarazation	RHCP
Axel Ratio	3.0dB typ.
	Total Specification
Frequency Range	1575.42 ± 1.023MHz
Gain	27dB typ.
Bandwidth	40 MHz @Return loss>-10 dB.
Output Impedance	50Ω
VSWR	2.0 max
Noise Figure	1.5 max
Re-Radiating Distance	ADA-104, 10 m; ADA-304, 30m
	Electrical Specification
Sully Voltage	100-240VAC to 7:5-12 VDC Regulator
Power Consumption	Typ: 48mA @ 7,5VDC
	Environmental Conditions
Operating Temperature	-30°C to + 80°C
Storage Temperture	-40°C to + 85°C
Relative Humidity	95% non condensing

Specification ADA-106/ADA-306

Antenna	Specification
Frequency	1575/1602 MHz (CF: 1590 Mhz)
Gain	+4.0 dBic typ at Zenith, @ 10dgr Elevation -5dBic
Polarazation	RHCP
Axel Ratio	3 dB max.
	Total Specification
Frequency Range	
Gain	27 dB typ.
Bandwidth	40 MHz @Return loss>-10 dB.
Output Impedance	50Ω
VSWR	2.0 max.
Noise Figure	1.5 max.
Re-Radiating Distance	ADA-304, 10 m; ADA-306, 30m
	Electrical Specification
Supply Voltage	100-240VAC to 7:5-12 VDC Regulator
Power Consumption	Typ: 48mA @ 7,5VDC
	Environmental Conditions
Operating Temperature	-30°C to + 80°C
Storage Temperture	-40°C to + 85°C
Relative Humidity	95% non condensing

	Mechanical Specification
RF Cable	40m Low Loss RF Cable with SMA connector
RF Connector	SMA
Size	Antenna 80 x 71mm, Radiator 79x85x113mm, Regulator 65x32x43mm
Weight	Antenna 237g, Radiator 215g, Regulator 85g
Mounting	Stainless steel mount
Water proof	Outdoor Antenna IP66



Ordering codes

TYPE	Description	Comment
ADA-104	GPS Repeater indoor Reception	10m re-radiation
ADA-304	GPS Repeater indoor Reception	30m re-radiation
ADA-106	GPS/GLONASS Repeater indoor Reception	10m re-radiation
ADA-304	GPS/GLONASS Repeater indoor Reception	30m re-radiation

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