
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

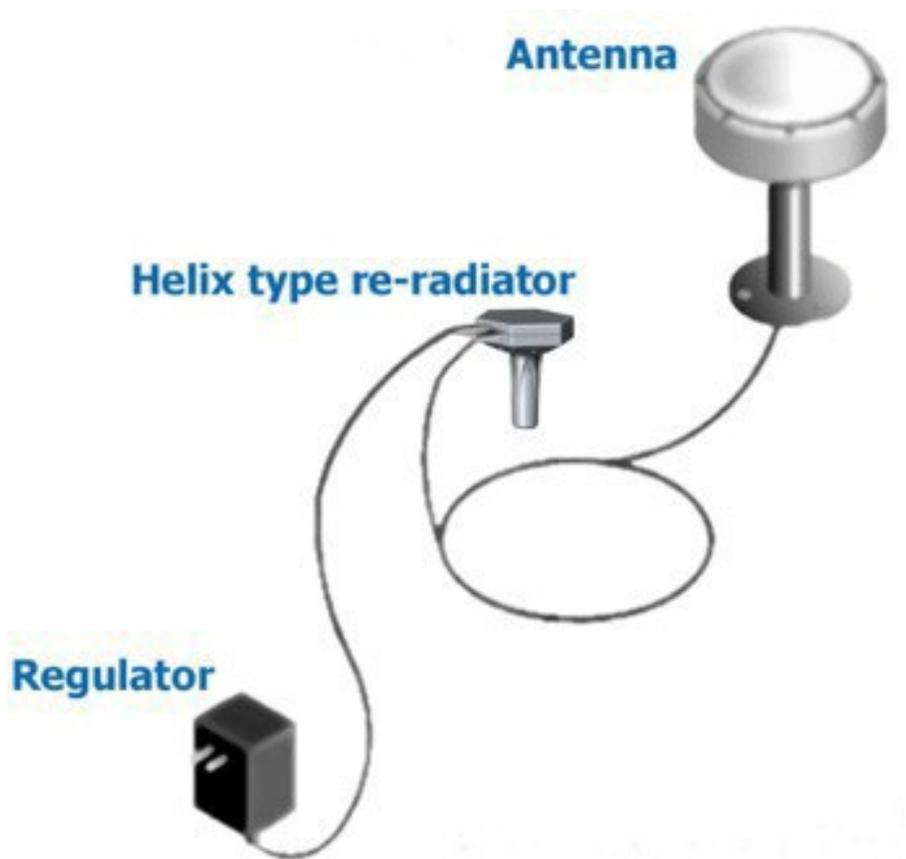
Specification ADA-104/ADA-304

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

For the latest updates, visit our Web site: www.adactus.se

Disclaimer

Information furnished is believed to be accurate and reliable. However, Adactus assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. Adactus reserves the right to make changes without further notice to any product herein to improve reliability, function or design. Adactus does not assume any liability arising out of the application or use of any product described herein.

This publication supersedes and replaces all information previously supplied. Adactus products are not authorised as critical components in life support devices or systems.