

RK-20W

Universal GNSS Re-radiator

- ❑ The **RK-125** covers the GPS / GLONASS / BEIDOU / GALILEO and QZSS systems
- ❑ The range of the internal radiating antenna is **30m** radius
- ❑ These systems re-transmit real time GNSS satellite outdoor reception to an indoor environment
- ❑ The system kit includes a high gain external antenna, a precisely calibrated amplifier circuit with Helix type re-radiator, and a mains power-supply
- ❑ The Helix type re-radiator allows multiple GNSS receivers to perform within a closed environment, while the main antenna is located on an outdoor location
- ❑ The system is designed as Plug and Play hardware and it can be installed either temporarily or permanently to a secured location
- ❑ If installed in a lab, building, underground-garage or where ever, the system will re-radiate signals that meet your requirements



Attention: *It is the responsibility of each customer to check with their local telecommunications authority that this equipment complies with local regulations.*

Specifications: RK- 20W Re-radiator

Mechanical Data:

Dimensions:

| | |
|------------------------|-----------------------------|
| Antenna | 4.5" x 2.9" (Ø in inch x H) |
| Helix type re-radiator | 37x35x71 (LxWxH mm) |
| Power-supply | 65x32x43 (LxWxH mm) |

Weight:

| | |
|-------------------------|-------------------------|
| -Antenna | 237g |
| -Helix type re-radiator | 48g |
| -Power-supply | 85g |
| Standard Mounting | Stainless bracket mount |

Color:

| | |
|-------------------------|---|
| - Antenna | White |
| -Helix type re-radiator | Black |
| -Regulator | Black |
| Construction: | Polycarbonate radome enclosure, sealed with waterproof rubber |

Environmental Conditions:

| | |
|-------------------|--------------------|
| Operating Temp. | -30°C ~ + 85°C |
| Storage Temp. | -40°C ~ + 90°C |
| Relative Humidity | 95% non-condensing |
| Waterproof | IP65 rating |

Antenna elements:

| | |
|--------------------------|------------------------------------|
| General Frequency ranges | 1559MHz~1610MHz 1164MHz~1283MHz |
|--------------------------|------------------------------------|

Absolute Gain at Zenith:

| | |
|----------------------|--------------|
| 1559~1612 MHz (L1) : | +4 dBi Typ |
| 1207~1246 MHz (L2) : | +3 dBi Typ |
| 1164~1191 MHz (L5) : | -5.2 dBi Typ |
| 1264~1283 MHz (L6) : | -2.5 dBi Typ |

| | |
|------------------|------|
| Output Impedance | 50 Ω |
|------------------|------|

Cable & Connector:

Standard Connector:

| | |
|--------------|--------------|
| -Antenna | TNC jack |
| -Re-radiator | SMA Jack |
| Cable | 40m RG58 A/U |

Electrical Specification:

| | |
|-------------------|-----------------------------------|
| Supply Voltage | 100~240 V AC to 7.5V DC Regulator |
| Power Consumption | 48 mA +/- 5% @ 7.5 V DC |

Ordering Information:

RK-20W

Related products:

| | |
|---------------|-------------------------------|
| RK-104 | 10m range for GPS only |
| RK-106 | 10m range for GPS and GLONASS |
| RK-304 | 30m range for GPS only |
| RK-306 | 30m range for GPS and GLONASS |

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