SWEGEO

SWEGEO TT225

GNSS REPEATER

KEY FEATURES

The Swegeo TT225 is a professional-grade GNSS Re-Radiating System designed for indoor GNSS signal relay applications. It contains a low noise amplifier and filter — DC bias current and antenna RF signal pass simultaneously, powering the external GNSS antenna while amplifying and forwarding the RF signal. The TT225 supports a wide range of signals, including GPS, GLONASS, BeiDou, Galileo, QZSS, IRNSS, SBAS, and L-band correction services. With its robust and durable construction, the TT225 is ideal for high-precision GNSS operations in demanding environments.

- **INTEGRATED LOW NOISE AMPLIFIER AND FILTER**
  Combines amplification and filtering in a single device to ensure high signal quality with minimal noise.

- **SIMULTANEOUS DC BIAS CURRENT AND RF SIGNAL PROCESSING**
  Provides DC bias current for external GNSS antenna circuits while also processing RF signals, facilitating efficient and reliable signal handling.

- **EFFECTIVE SIGNAL FILTERING AND AMPLIFICATION**
  Filters and amplifies the received GNSS antenna RF signal, enhancing signal strength and clarity before outputting to relay and forwarding antennas.

- **COMPACT AND LIGHTWEIGHT DESIGN**
  Features a small, lightweight form factor for easy installation and integration in various setups. Specifically designed for GNSS signal relay applications, making it well-suited for extending and distributing GNSS signals efficiently.

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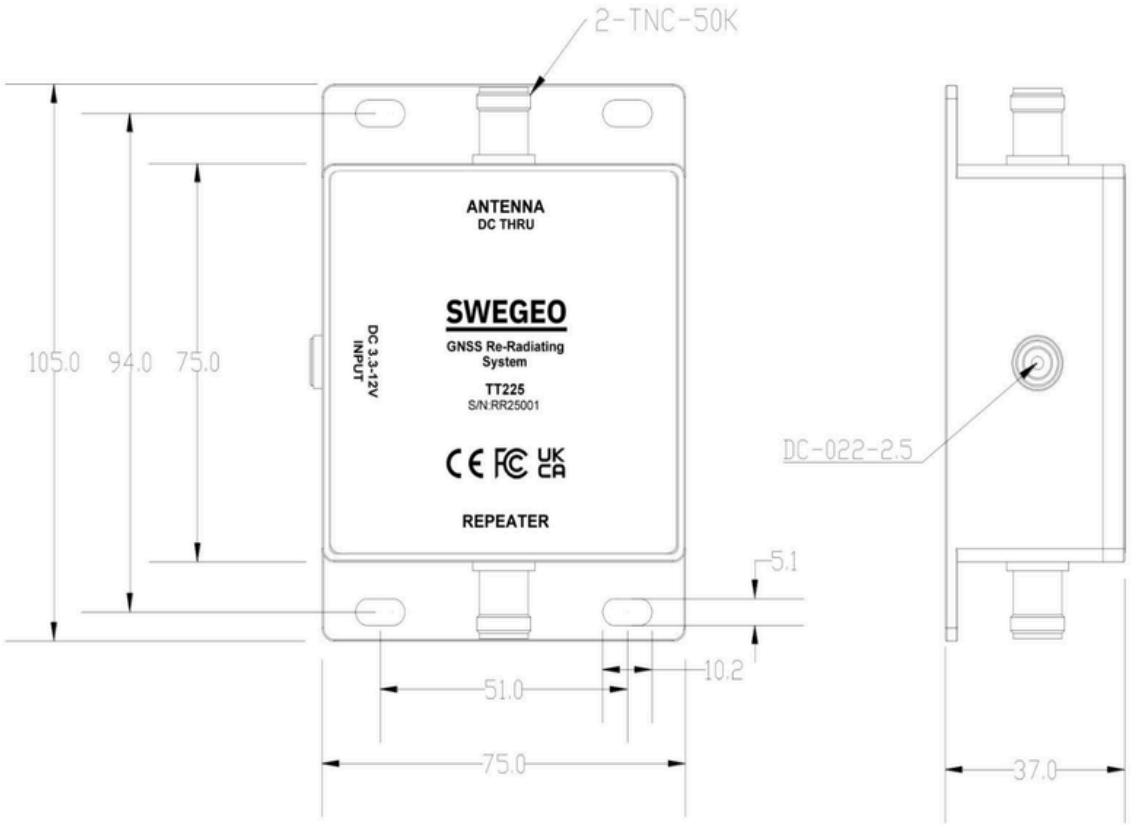
GENERAL	
Supported Signals	GPS: L1/L2/L5
	GLONASS: G1/G2/G3
	BEIDOU: B1/B2/B3
	GALILEO: E1/E5a/E5b/E6
	QZSS: L1/L2/L5
	IRNSS: L1/L2/L5
	SBAS: L1/L2/L5
Frequency Range	1150 ~ 1650 MHz
Nominal Impedance	50 Ω

MECHANICAL	
Dimensions	105.0 × 75.0 × 37.0 mm
Connector	TNC-50KY
DC Port	DC-022-2.5 (Fitting Φ5.5×2.5 mm, IP67)
Weight	≤180 g
Attachment	Four screw holes
Body / Radome	Aluminum alloy 6061-T6

LNA	
LNA Gain	20 ±3.0 dB (Typ. @25°C)
Noise Figure	≤2.0 dB @25°C, Typ.
Output VSWR	≤1.8:1 typ. / 2.0:1 max
Operation Voltage	3.3 ~ 16 V DC
Operation Current	≤20 mA

ENVIRONMENTAL	
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-55°C ~ +85°C
Humidity	95% Non-condensing



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