TRNM[G]-7-60-NJ



TRNM[G]-7-60-NJ

- Standard four hole rail fixing
- 2x2 MiMo Cell / LTE / WiFi 2.4/5.0
- Optional Integrated GPS / GNSS / Beidou antenna
- Suitable for GSM-R rail applications

The TRNM(G) MiMo antenna series is designed specifically for use on trains, trams and buses underground or over ground. Incorporating two elements operating wideband across all frequencies from 698MHz to 6000MHz the TRNM(G) range is versatile and future proof.

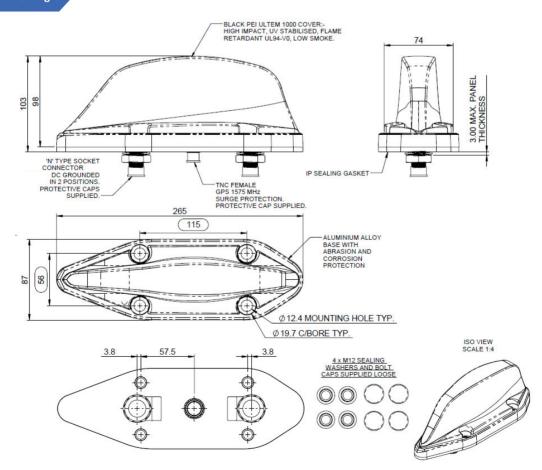
The TRNM(G) series covers GSMR, 700MHz LTE, 800MHz TETRA and trunking bands along with all Cellular and GSM frequencies, 2.4 & 5.8GHz WLAN, 2.6 GHz LTE and WIMAX all in one housing.

The TRNM(G) has two DC grounded radiating elements, in versions with a GPS module it is protected by a gas discharge surge arrestor.

Housed in a high impact, flame retardant Ultem housing, the TRNM(G) series is weatherproof ensuring that the antenna's performance is never compromised.

The TRNM[G] antenna meets stringent industry standards including EN50155, EN45545-2 (HL 1-3), EN50124-1 (25 KA / 100 MS) and is ingress protected to IP69k when properly installed.

Technical Drawing TRNMG-7-60-NJ Shown



GSNI-K / LIE MiMo Transit Antenna Range PANORAMA PANTENNAS

TRNM[G]-7-60-NJ

Product Data

	TRNM-7-60-NJ TRNMG-7-60-NJ
Hz)	2x 698-960 / 1700-6000 MHz
698-960	6dBi
1710-2700	6dBi
Isotropic** 4.9-6GHz	10dBi
	Vertical
	< 2.5:1
ent	<0.1
	<15dB
	Omni-directional
	50Ω
)	60
Hz)	- 1560-1612
	- 50Ω
	- 26dB ± 3
	- Rigth Hand Circular
	- 3-5V DC
	- 15mA
ompliance	EN 301 489-1 V1.81 & EN 301 489-3 V1.6.1 EN 50121- - 3-2:2015
Height (N/inc pad)	98 (3.86")
Width	87 (3.42")
Length	265 (10.4")
ification	
	-40° / +80°C (-40° / +176°F)
	Ultem 1000
dance Rating	V0 (UL 94)
	Cast Aluminium (corrosion protected & powder coated)
	IP67 (Report No. 98883) or IP69K when installed in accordance with SW3 - 988 (Report No. 103439)
S	EN50155:2007 (Dry heat & Cooling), EN61373:2010 / EN50155:2007 (Shock & Vibration), EN45545 - HL3 (flammability), EN50124-1 (Rated Insulation UNm 17.25/27.5 KV Short Circuit Current 25 Ka 100ms)
	4 × mounting holes to suit M12 bolts
Comms	2x N (female) - DC grounded
GPS	- TNC (female) - surge protected
	698-960 1710-2700 4.9-6GHz ent Department Departm

^{**} Simulated on a 600 x 600mm (2' x 2') ground plane without cable.

^{*} Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3')of low loss cable

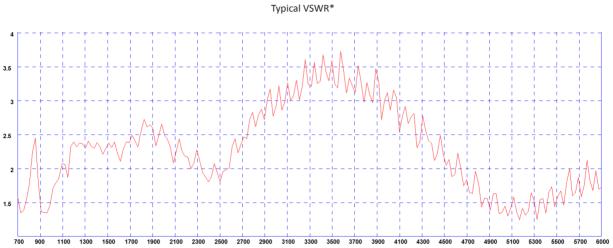


GSM-K/LIE MiMo Transit Antenna Range PANORAMA PANTENNAS

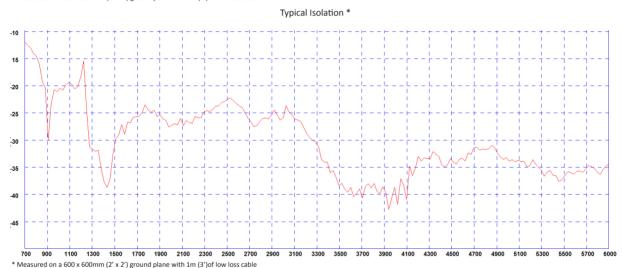


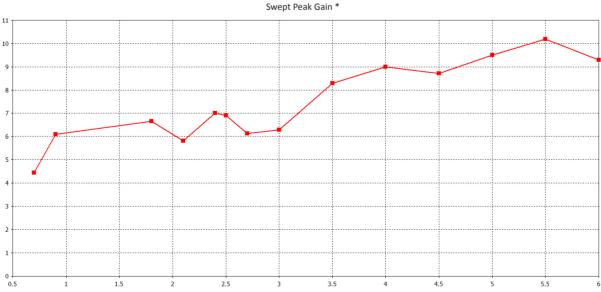
TRNM[G]-7-60-NJ

Electrical Data



* Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3')of low loss cable



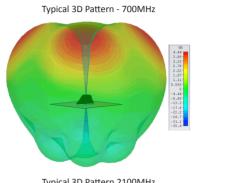


^{*} Simulated in CST Microwave Studio on a 600 x 600mm (2′ x 2′) ground plane with 1m (3′)of low loss cable

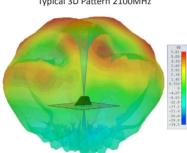
GSNI-R/LIE MiMo Transit Antenna Range PANORAMA PANTENNAS

TRNM[G]-7-60-NJ

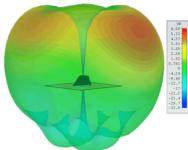
Patterns



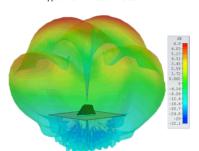
Typical 3D Pattern 2100MHz



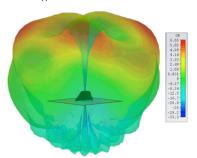
Typical 3D Pattern - 900MHz



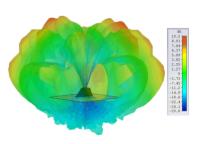
Typical 3D Pattern 2500MHz



Typical 3D Pattern - 1800MHz



Typical 3D Pattern 5500MHz



Typical E-Plane Pattern - (GPS) 1575MHz

