LTE/Cellular Transit Antenna



TRNC[G]-7-60





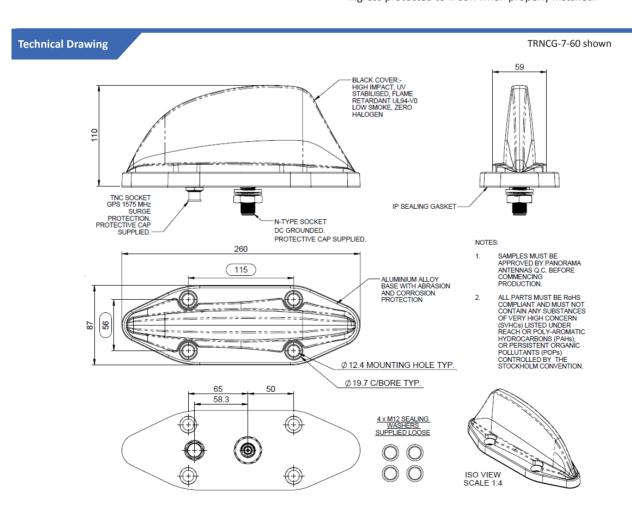
- Standard four hole rail fixing
- Wideband LTE/Celular/WIFI element
- Optional Integrated GPS / GNSS / antenna [TRNCG version]
- Suitable for GSM-R rail applications

The TRNC(G) antenna series has been designed specifically for use on trains, trams and buses underground or over ground.

The TRNC(G)-7-60 range covers 698-960/1710-6000MHz with optional GPS/GNSS with a 26dB LNA. The radiating element is DC grounded and, 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 TRNC(G) series is weatherproof ensuring that the antenna's performance is never compromised.

The TRNC[G]-7-60 meets stringent industry standards including EN50I55, EN45545-2 (HLI-3), EN50I24 (40 KA 100 MS) and is ingress protected to IP69K when properly installed.



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LTE/Cellular Transit Antenna



TRNC[G]-7-60

Product Data

Part No.		
		TRNCG-7-60 TRNC-7-60
Frequency Range (MHz)		698-960/1710-6000 MHz
Peak Gain: **	698-960MHz	5dBi
	1710-2700MHz	7dBi
	4900-6000MHz	10dBi
Polarisation		Vertical
Typical VSWR*		< 2.5:1
Pattern		Omni-directional
Impedance		50Ω
Max Input Power (W	/)	60
GPS Data		
Frequency Range (N	1Hz)	1560-1612 -
Impedance		50Ω -
LNA Gain	-	26dB ± 3 -
Polarisation		Rigth Hand Circular -
Operating Voltage	-	3-5V DC -
Current (Typical)		15mA -
GPS Antenna EMC C	ompliance	EN 301 489-1 V1.81 & EN 301 489-3 V1.6.1 EN 50121-3- 2:2015
Mechanical Data		
Dimensions (mm)	Height (N/inc pad)	110 (4.33")
	Width	87 (3.42")
	Length	260 (10.23")
Environmental Spec	cification	
Operating Temp (°C) -40° / +80°C (-40° / +176°F)		-40°/+80°C (-40°/+176°F)
Radome Material		Ultem 1000
Radome Flame Retardance Rating		V0 (UL 94)
Base Material		Cast Aluminium
Ingress Protection		IP67 (Report No. 98883) or IP69K when installed in accordance with SW3 - 988 (Report No. 103439)
Approvals Data		
Regulatory Approvals		EN50155:2007 (Dry heat & Cooling), EN61373:2010 / EN50155:2007 (Shock & Vibration), EN45545 - HL3 (flammability) / EN50124-1:2017 (40 KA 100 MS)
Mounting Data		
Fixing		4 × mounting holes to suit M12 bolts
Termination Data		
Termination	Comms	N (female) - DC grounded
	GPS	TNC (female) - surge protected -

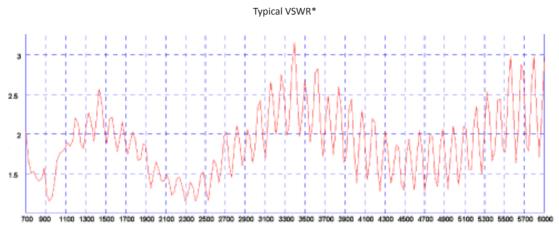
^{**} Simulated on a 600 x 600mm (2′ x 2′) ground plane without cable.



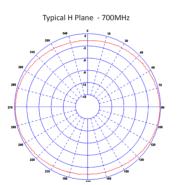
^{*} Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3')of low loss cable

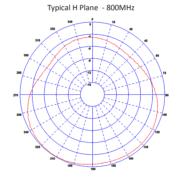
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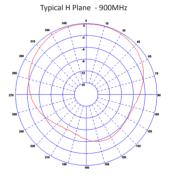
Electrical Data

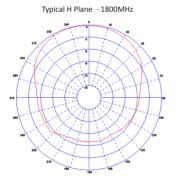


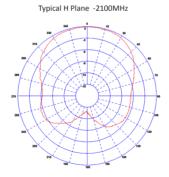
* Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3')of low loss cable











235 226 240 228

Typical E-Plane Pattern - (GPS) 1575MHz

Patterns measured on a 600 x 600 (2' x 2') ground plane with 1m (3') of low loss cable