

# 5G LTE TRANSIT ANTENNA

## 698-2700 MHz & 5700-5800 MHz

### TLA4100, TLA4200



The TLA4100/4200 transit antenna is designed specifically for rail, light rail, bus applications and other similar demanding transit or stationary application. With a VSWR less than 2.5:1 covering 698-2700 MHz & 5700-5800 MHz, the TLA4100/4200 operate in most cellular bands globally plus the 2.5 & 5.5 GHz ISM bands. In addition, the TLA4200 incorporates an active GPS antenna for asset tracking and AVL applications. Designed utilising a high impact, UV stabilised Low Flame, Smoke and Toxicity (FST) radome, the TLA4100/4200 is IP68 rated to fully protect against the ingress of dust & water.



#### Key Features:

- NF-F-16-101/102 (materials standard)
- EN50155 (vibration standard)
- EN50124-1 (electrical isolation standard)
- Functions with or without a ground plane\*

#### Electrical Specifications

Model Number	TLA4100 / 4200			
Frequency MHz	698-960	1710-2170	2300-2700	5700-5800
Peak Gain dBi	5	6	3	7
Tuned Bandwidth	Full			
VSWR	<2.5:1			
Nominal Impedance $\Omega$	50			
Vertical Beamwidth	38°	180°	155°	40°
Horizontal Beamwidth	Omni-direction			

#### Mechanical Specifications

Model Number	TLA4100 / 4200
Construction	NF-F-16-102 compliant injection moulded radome / cast aluminium alloy base
Area mm	205 x 100
Height mm	90 including gasket
Termination	Antenna Port: Fixed N-female GPS Port: Fixed TNC-female (TLA4200)
Mounting Area	4 x M6 screws (not included)

#### GPS (TLA4200 only)

Model Number	TLA4100 / 4200
Frequency MHz	1575.42
Operation Temperature °C	-40 to +85
Storage Temperature °C	-40°C to +100
System Gain dBi	28 (including cable and filter losses)
Impedance Ohm	50
Polarization	RHCP
VSWR	1.5:1
Noise Figure dB	<1.8 max.
Power Input Vdc	+2.5 VDC to +12 VDC input, Auto Switching
Power Consumption mA	11 to 13 (max)
Typical Isolation Between Ports dB	>36 for 698-960 MHz, >30 for 1710-2170 MHz, >38 for 2300-5800MHz

\* Nominated gain & VSWR achieved using a 1m<sup>2</sup> ground plane