

# MULTI BAND PANEL ANTENNA (DUAL)

## BAND 850 + BROADBAND 1710 – 2170 MHz

### TGAD3-400TV-EX

824 - 896	1710 - 2170		
824 - 896	1710 - 1880	1850 - 1990	1920 - 2170
H69° V14.5°	H65° V6.6°	H64° V6.6°	H63° V6.4°
Variable Tilt 0° - 10°	Variable Tilt 0° - 10°	Variable Tilt 0° - 10°	Variable Tilt 0° - 10°

#### ELECTRICAL SPECIFICATIONS

**BAND 850**
**BROADBAND 1710-2170 MHz**

Antenna Model	TGAD3-400TV-EX											
Polarization	± 45°											
Frequency	<b>824-896</b>			<b>1710-2170</b>								
	824 - 896	1710 - 1880	1850 - 1990	1920 - 2170								
Horizontal Beamwidth	69°	65°	64°	63°								
Vertical Beamwidth	14.5°	6.6°	6.6°	6.4°								
Gain (dBi)	<b>T0 T5 T10</b> 14 14 14	<b>T0 T5 T10</b> 17.2 17.6 17.5	<b>T0 T5 T10</b> 17 17.5 17	<b>T0 T5 T10</b> 17.5 17.5 16.6								
Vertical Electrical Tilt	VARIABLE 0°-10°	VARIABLE 0°-10°	VARIABLE 0°-10°	VARIABLE 0°-10°								
Upper Sidelobe Suppression for the 1 <sup>st</sup> lobe above main beam (dB)	<b>T0 T5 T10</b> 19 19 19	<b>T0 T5 T10</b> 19 17 17	<b>T0 T5 T10</b> 19 19 17	<b>T0 T5 T10</b> 19 19 17								
Front-to-Back Ratio @ 180° ± 20° (dB)	> 28	> 26	> 26	> 26								
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1								
Cross Polar Ratio @ ± 60° (dB) <i>Typically</i>	> 10	> 10	> 10	> 8								
Isolation between Ports (dB)	> 30	> 30	> 30	> 30								
Interband Isolation (dB)	> 40 (824-896//1710-2170)											
Maximum Power Per Input (W)	500	250										
Intermodulation (dBc)	< - 150											
Impedance (Ω)	50											



#### MECHANICAL SPECIFICATIONS

Connectors	4 X 7/16 Female
Connector Position	Bottom
Survival Wind Speed km/h (mph)	200 (125)
Front Windload N @ 160 km/h (lbs @ 100 mph)	690 (155)
Lateral Windload N @ 160 km/h (lbs @ 100 mph)	150 (34)
Radome Color	Grey, paintable
Humidity	100%
Antenna Weight kg (lbs)	22 (48)
Antenna Dimension mm (in) H X W X D	1340 x 350 x 145 (53 X 14 X 6)

