

Pcom Ka Band Antenna Technical Specifications



GENERAL SPECIFICATIONS

Antenna Model	Pcom Ka Band
Reflector Diameter	0.78m
Mechanical Operation Properties	Azimuth Range $\pm 170^\circ$
Elevation Range	5° to 70°
Autopointing	One touch Autopointing operation Antenna Controller Unit Pcom Ka Band
Azimuth Speed	Slow $0.4^\circ/\text{sec}$ to High $3.0^\circ/\text{sec}$ (individually configurable)
Elevation Speed	Slow $0.2^\circ/\text{sec}$ to High $2.0^\circ/\text{sec}$ (individually configurable)
Optimal On-Air Time	2 minutes
Sensor Selection (Optional)	Analog Potentiometer/Resolver/Encoder.
Weight	19 Kg.

RF SPECIFICATIONS

Antenna Model	Pcom Ka Band
Antenna Gain	Tx 45.3dBi Rx 45.2dBi
Polarization	Circular Polarization
Frequency	Tx 28.10 GHz – 30.00 GHz Rx 18.30 GHz – 20.20 GHz

SENSOR SPECIFICATIONS

Tilt Sensors	MG-100INC Inclination sensor $\pm 45^\circ$ elevation
Compass Sensor	MG-100FGC Compass $\pm 45^\circ$ elevation. Calibrated
Location Sensor	GPS NMA183 Data Stream
Resolver Data bits	16 Bit Data Conversion Resolver ADC Module (optional)
ADC Data bits	16 Bit Data Conversion ADC Module
Limit Switch	6 Hardware Switch Sensor

COMMUNICATION PROTOCOLS

Modem Communication Protocol	1 x Ethernet 10/100Mbit, Modbus, TCP/IP
Remote Connection Protocol	1 x RS485, Modbus RTU. / Ethernet 10/100Mbit, 1 x RS232

POWER CONSUMPTION

Operating Voltage	220 - 240 VAC 50Hz
Motor Voltage / Current	12-24 VDC – 15A Continues
Internal Operating Voltage	7-27 VDC

TEMPERATURE SPECIFICATION

Operating temperature	$-20 \sim +70^\circ\text{C}$
Waiting temperature	$-30 \sim +80^\circ\text{C}$
Operational Humidity	$0 \sim 100\% \text{ Rh}$