

GPS/TETRA Band Survivor™ Antenna

GPSS380DP26-001

Innovative **Technology** for a **Connected** World



HEAVY DUTY COMMERCIAL ANTENNA MEETS THE COMMUNICATION CHALLENGES OF TRANSPORTATION PROVIDERS WORLDWIDE

The GPSS380DP26-001 TETRA band Survivor $^{\text{TM}}$ antenna is a heavy duty commercial vehicular antenna that offers high performance and sensitivity for the accurate location and timing of signals that continuously update the position of a travelling vehicle. It operates in the 380 to 430 MHz frequency band with 2.8 dBi (radio) gain, and a 26 dB right-hand circularly polarized active GPS patch that requires a bias voltage of +3.3 to +5V DC.

The antenna has a rugged molded housing and a 5/8" diameter mounting stud allows for quick and easy installation on a vehicle. The antenna comes standard with RG58 cable w/ TNC connector (radio) and RG174 w/ SMA Reverse Polarity (GPS), but other connectors may be available upon request.

FEATURES

- Frequency range: 380 to 430 MHz
- Avg. VSWR: <2:1
- Gain: 2.8 dBi (radio), 26 dB (GPS)
- Power: 50W (max, PTT = 15 minutes)
- Mounting information: 5/8" (16 mm) hole
- Termination: UHF RG58A/U w/ FME plug (male), GPS - RG174 w/ FME socket (female)

BENEFITS

- Highly durable molded housing design survives the harshest of environments and applications
- 26 dB active GPS patch antenna which reacquires lost signal faster
- 5/8" diameter durable mounting stud attaches quickly and easily to roof, trunk, cab, or hood

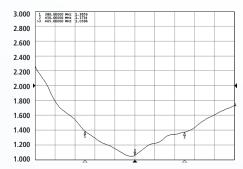
MARKETS OR APPLICATIONS

- General voice/data communications
- TETRA public safety
- Transportation agencies, utilities, government, and military

SPECIFICATIONS

ELECTRICAL		
Peak Gain	2.8 dBi / 26 dB	
MECHANICAL		
Antenna Height	7.17" (182 mm)	
Weight (Mass)	1 lbs (450 g)	
Diameter	3" (76.2 mm)	
Temperature	-55°C to +85°C	

VSWR DIAGRAM



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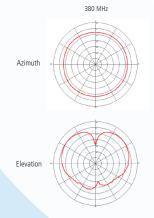
UHF ANTENNA (TX/RX)

	PARAMETER		
	Frequency Range	380-430 MHz	
	Pattern	Omnidirectional	
	Polarization	Vertical	
	Elevation Beamwidth at Half-Power	120°	
	Azimuth Beamwidth at Half-Power	360°	
	Maximum Power	50 Watts	
		PTT for 15 min	
	Nominal Impedance	50 Ω	
	VSWR	< 2:1	
	Termination	FME Plug (male)	
	Mounting Information	Drill 5/8" (16 mm) Hole & Install	
	Radome Material	ABS	
	Ground Plane (min)	1.25 ft2 (381 mm ²)	
	Cable	Type: RG58A/U	
		Length: 1 ft, exit at bottom	

GPS ACTIVE ANTENNA (RX ONLY)

PARAMETER			
Frequency Range	1575.42 MHz ± 1 MHz		
Polarization	Right Hand Circularly Polarized (RHCP)		
Antenna Gain	3 dBi min (elevation = 90°)		
Antenna Gam	-5 dBi min (elevation =20°)		
Azial Ratio	4.0 dB max (elevation = 90°)		
Aziai Katio	6.0 dB max (elevation = 10°)		
Output Impedance	50 Ω		
VSWR	< 1.5:1		
Termination	FME Socket (female)		
Normal Gain	(26 ± 3) dB		
Noise Figure	1.5 dB @25°C		
Power Supply	3 to 5 Vdc		
Current Consumption	20mA max		
Power Handling	1W max		
ESD Rating	± 8 KV		
Cable	Type: RG174		
Canie	Length: 1ft, exit at bottom		
	600 MHz ~ 1000 MHz	-40 dBc	
GPS Attenuation	1475 MHz	-30 dBc	
Responses	1525 MHz	-20 dBc	
	1625 MHz	-15 dBc	
	1675 MHz	-25 dBc	

PATTERNS











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