

Inside Window Glass Mount



APDM5920U, vertical installation. The antenna can also be installed horizontally.

This vertical or horizontal polarization antenna is designed for inside glass mount installations operating in the 800 MHz cellular, 900 MHz trunking, 1800 MHz DCS and 1900 MHz PCS bands without the need for tuning. Its tape mount easily attaches to a vehicle’s windshield or other glass surfaces making the antenna ideal for public safety or other applications requiring an unobtrusive design.

Features

- Quad Band – covers 800 MHz cellular, 900 MHz trunking, 1800 MHz DCS, and 1900 MHz PCS
- Low Profile – “sleek” appearance blends well with car dash interior
- Efficient – simple mounting method allows installation in minutes without holes
- Economical – one antenna serves the function of four, minimizing installation and inventory requirements
- Antenna can be oriented vertically or horizontally for maximum installation flexibility



Technical Data

Maximum Power: 10 watts
Polarization: Linear, horizontal or vertical
Nominal Impedance: 50 ohms
VSWR: < 2.0:1
Radiator Material: ABS
Coax Cable: 10 ft RG-174/U cable (bottom fed)
Connector SAP (female FME)
Mounting Method: Normount® Z500 tape

Antenna Electrical Specifications

Model	Frequency Range	Gain	Bandwidth
APDM5920U	824-960/1710-1990 MHz	Unity	136/280 MHz

Mechanical Specifications

Model	Antenna Dimensions
APDM5920U	0.5” D x 5.9” L

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3930D Quad-band Cellular + 3G Dash/Covert Mount & Embedded Antenna

The 3930D Quad-band Cellular + 3G Covert Antenna provides exceptional signal reception globally across public 2G and 3G Cellular wireless networks. The antenna is tuned to receive 824-894 MHz (cell), 890-960 MHz (GSM), 1710-1880 MHz (European), and 1850-1990 MHz (N. American) frequencies, as well as 1885-2200 MHz (US & Euro 3G/UMTS/W-CDMA) band. Housed in an ultra-thin, semi-flexible Lexan® covered urethane foam package for covert, dash-mount and embedded installations, the 3930D Quad-band Cellular + 3G covert antenna is the perfect solution for cutting-edge Telematics, Wireless Remote Monitoring and M2M Platforms.

Features

- Quad-band cellular and 3G (UMTS/ W-CDMA) reception
- Ultra-thin semi-flexible for covert installations
- Easy to install
- Ideal for in-vehicle covert installations, telematics, wireless remote monitoring and M2M platforms



Mechanical Specifications

Antenna Dimensions	Housing	Cable	Connector
5.45" x 1.58" x .18" (138.4 x 40.1 x 4.57mm)	Lexan® covered urethane foam	9.8' (3 meters) RG174	SMA male

Environmental Specifications

Temperature Range	Humidity
-40° C to +85° C operating	95% max (non-condensing)

Antenna Electrical Specifications

Frequencies: 824-894 MHz (Cellular) 890-960 MHz (GSM) 1710-1880 MHz (Europe) 1850-1990 MHz (N. America) 1885-2200 MHz (US & EU 3G)
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Nominal Impedance: 50 Ohm

VSWR: <2:1



“On-Glass”[®] Dual Band, Window Mount 3 dB Gain Antennas

Our “On-Glass”[®] Premium antennas have been precision engineered to provide optimal coverage for both iDEN and PCS frequencies in a low profile antenna design. They are available with various connector options.

Features

- Precision Engineered – 3 dB performance at all specified frequencies in smaller footprint for minimal visual obstruction
- Flexible Foot – firmly adheres to curved glass surfaces for secure vehicular installations
- Patented Whip Design – special phasing coil achieves in-phase signal transmission and reception using 2 collinear elements at both frequencies
- High Performance – patented coupling box provides maximum efficiency while PRO-FLEX[™] PLUS 195 cable minimizes loss
- Convenient – install only one antenna to cover all 800/900 MHz and PCS frequencies, minimizing installation time and costs
- Frequency Tuned Design – optimum performance with no field tuning required
- Straked Whip – for reduced wind noise and better RF reception



Technical Data

Maximum Power: 10 watts
Nominal Impedance: 50 ohms
VSWR: <1.9:1
Radiator Material: 0.090” 300 series stainless steel with black DURA-COAT [™] finish
Cable: 15 ft PRO-FLEX [™] PLUS 195 cable
Mount Method: Glass mount

Antenna Electrical Specifications

Model	Frequency Range	Bandwidth	Gain
APDM928M	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB
APDM928S	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB
APDM928T	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB
APDM928U	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB
APDM928	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB
APDM928PCS	806-960/1850-1990 MHz	154 MHz/140 MHz	3 dB/3 dB

Mechanical Specifications

Model	Connector	Antenna Height
APDM928M	Mini-UHF male	14”
APDM928S	SMA male	14”
APDM928T	TNC male	14”
APDM928U	SAP	14”
APDM928	None	14”
APDM928PCS	SAP with Mini-UHF and TNC adapters	14”



APR852.3

APR852.3 Series
U.S. Patent No. 4,238,799



“On-Glass”[®] 3 dB Window Mount Antennas

Our “On-Glass”[®] 3 dB antennas provide optimal coverage of 800 and 900 MHz frequencies with outstanding VSWR performance of <1.5:1. Their patented mount design features a compact coupling box and flexible foot that transmits and receives through glass without holes while firmly adhering to curved glass surfaces.

Features

- Flexible Foot - improved design adheres better to curved glass surfaces on today’s automobiles
- Optimum Performance - a typical VSWR of less than 1.5:1 across the specified frequencies
- Frequency Tuned Design - optimal performance in virtually every installation with no tuning required
- Hand-adjustable Whip - constant tension keeps whip vertical during normal use, yet whip can be folded down quickly and easily before entering a car wash, without using tools. Whip removal is not required
- Models available with open or enclosed coil straked whips

Technical Data

Maximum Power: 10 watts (all models except APR series) 35 watts (APR models)
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Radiator Material: Stainless steel, black DURA-COAT™ finish
Base: Polyurethane molded foot with brass insert and stainless steel hardware
Coax Cable: 15 ft PRO-FLEX™ PLUS 195 (not included with model number APR852.3)
Whip Length: Approximately 13” (APD876.3 models) 14.7” (APD873.3 models) 12.7 inches (APR models)
Mounting Method: Glass mount

Antenna Electrical Specifications

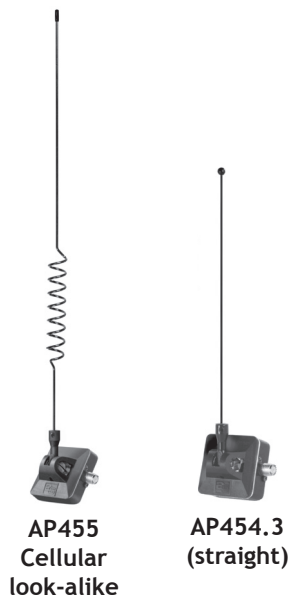
Model	Frequency Range	Gain	Bandwidth
APR852.3	806-869 MHz	3 dB	63 MHz
APR852.3M	806-869 MHz	3 dB	63 MHz
APR852.3N	806-869 MHz	3 dB	63 MHz
APR852.3P	806-869 MHz	3 dB	63 MHz
APR852.3T	806-869 MHz	3 dB	63 MHz
APD876.3M	824-894 MHz	3 dB	70 MHz
APD876.3T	824-894 MHz	3 dB	70 MHz
APRG852.3M	890-960 MHz	3 dB	70 MHz
APRG852.3N	890-960 MHz	3 dB	70 MHz
APRG852.3T	890-960 MHz	3 dB	70 MHz
APRG852.3U	890-960 MHz	3 dB	70 MHz

Mechanical Specifications

Model	Connector	Whip Style
APR852.3	No connector / No cable included	Open
APR852.3M	Mini-UHF male	Open
APR852.3N	N male	Open
APR852.3P	UHF male	Open
APR852.3T	TNC male	Open
APD876.3M	Mini-UHF crimp	Enclosed-straked
APD876.3T	TNC Male crimp	Enclosed-straked
APRG852.3M	Mini-UHF male	Open
APRG852.3N	N male	Open
APRG852.3T	TNC male	Open
APRG852.3U	SAP (female FME)	Open

“On-Glass”® Unity Gain Window Mount Antennas

These antennas feature patented “On-Glass”® technology that permits RF transmission and reception through glass. They utilize DUO-BOND™ mounting that permits installation without holes, providing a complete seal against moisture and long lasting holding power.



Features

- Unique - patented “On-Glass”® technology transmits and receives through glass
- Efficient - DUO-BOND™ mounting method allows no-hole installation in minutes, with long-lasting holding power
- Weather Proof - water cannot enter vehicle through gasket failure or cable channels
- Effective - mounts high in the vehicle for optimal omnidirectional coverage
- Convenient - whip is easily adjustable to vertical position and is removable for car wash clearance
- Disguise cellular look-alike models available for covert public safety applications

Antenna Electrical Specifications

Model	Frequency Range	Gain
APR153	150-174 MHz	Unity
APR152.3	150-174 MHz	Unity
AP454.3	410-512 MHz	Unity
AP455	440-470 MHz	Unity



Technical Data

Maximum Power: 50 watts
Normal Impedance: 50 ohms
VSWR: < 1.5:1
Radiator Material: Stainless steel, black DURA-COAT™ finish 17-7PH stainless steel encapsulated phasing coil (AP454.5)
Coax Cable: (if included): 15 ft RG-58/U
Required Mounting Footprint: 1.75” square (APR models)
Coupling Unit: DC grounded, shunt-fed
Mounting Method: “On-Glass”® mount with black DURA-COAT™ finish and stainless steel hardware and plastic ABS cover

Mechanical Specifications

Model	Connector	Antenna Height from Mounting Surface	Rod Type
APR153	PL-259 attached	19.8” perpendicular	Open Coil
APR152.3	PL-259 attached	23.7” perpendicular	Straight Whip
AP454.3	UHF male on cable	8”	Straight
AP455	UHF male on cable	18”	Coil