



PMR & Critical COMMUNICATIONS

PRODUCT CATALOGUE

Over 70 Years of Experience

Panorama Antennas is a privately owned family business, now in its third generation, and is a leading designer and manufacturer of antennas for wireless communication. Established in London in 1947, Panorama started life as a manufacturer of consumer products and buoyed by huge demand in 1952, began manufacturing TV components and antennas. With the transistor radio trend of the 1960s, Panorama's expert knowledge swiftly led us into the manufacturing of communication antennas.

Throughout the 70s and 80s, Panorama evolved to become the first specialized communication antenna manufacturer in the UK, developing a range of cellular antennas to coincide with the launch of the mobile phone network in Britain. 1990 was a year of huge change as Panorama found itself revolutionizing cellular glass mount antenna technology, filing a patent application for the first ever solid state coupling circuit. Through creating a new benchmark for quality in the production of components and leading technology development, Panorama has grown side by side with the cellular telecommunications industry.

Today Panorama produces antennas for the world's leading communication companies and has grown to include over 100 staff in 5 international sales offices, as well as operating 4 fully owned subsidiaries. Manufacturing, design and development are located in London less than a mile from the original factory. Our network of international sales representatives means that all customers get the attention and advice they require, providing local support on a global scale.

Antennas For Next Generation

Panorama's constant cutting-edge research ensures that our antennas meet the demands of the very latest technology. With over 70 years' experience in delivering world-class antenna products, Panorama's current product range reflects our unparalleled expertise in providing high-quality performance antennas.









Quality As Standard

Quality Assurance

In 1989, Panorama Antennas became the first antenna manufacturer in Europe to gain ISO 9000 certification. Panorama currently holds the ISO 9001-2015 certificate for quality assurance.

Environmental Management System

Panorama has attained ISO 14001:2015 International standard for effective environmental management system (EMS)

Patents

Panorama Antennas currently holds several patents and registered designs both in Europe and worldwide.

RoHS Compliance

All of the products that Panorama Antennas manufactures are 100% RoHS 3 compliant. Investment in advanced technology enables Panorama to test materials supplied to us ensuring that no non-compliant material is passed on to the customer.

REACH

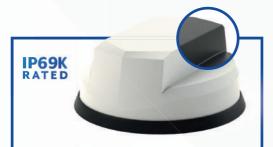
REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals, EC 1907/2007) is the European Union's chemical regulation that came into force on 1 June 2007 and has been phased in over an 11 year period. Panorama Antennas wholeheartedly supports the objective of REACH to enhance public health and safety and the protection of the environment. Panorama is committed to meeting REACH requirements and can provide information about substances in accordance with the requirements.

Associations

Panorama Antennas is currently a member of the following professional associations:

- Federation of Communication Services
- TCCA (The Critical Communications Association)
- . British Safety Council
- B-APCO (British Association of Public Communication Officers)





Great White® 5G

FEATURES

2x2 MiMo 5G/4G/3G/2G LTE 617-960 / 1710-6000MHz Optional Integrated GPS/GNSS Up to 6x6 MiMo WiFi 2.4/5.0GHz UN118 Cables IK10 Rated

The LPMM/LGMM range provides effective 2x2 MiMo LTE operation with excellent isolation and low correlation coefficient. Available in Black or White. Optional GPS/GNSS module incorporates advanced filtering.

Part no.	GPS/ GNSS	MiMo LTE	MiMo WiFi
LPMM-6-60		2×2	
LGMM-6-60	•	2×2	
LGMDM-6-60-24-58	•	2×2	2×2
LGMTM-6-60-24-58	•	2×2	3×3
LGMQM-6-60-24-58	•	2×2	4×4
LGMHM-6-60-24-58	•	2×2	6×6

^{*}Part numbers refer to the white version only

Multifunction Antenna

5G Dome Antenna

FEATURES

4x4 MiMo 5G/4G LTE 617-960 / 1710-6000MHz Optional Integrated GPS/GNSS Up to 6x6 MiMo WiFi 2.4/5.0GHz UN118 Cables IK10 Rated

The LPMM4/LGMM4 enables multiple antenna functions to be fitted using a single hole mount. Designed for use with Advance Pro routers that require a 4x4 5G/4G/LTE MiMo antenna system. Available in Black or White. Optional GPS/GNSS module incorporates advanced filtering.



Part no.	GPS/ GNSS	MiMo LTE	MiMo WiFi
LPMM4-6-60		4×4	
LGMM4-6-60	•	4×4	
LGMDM4-6-60-24-58	•	4x4	2×2
LGMTM4-6-60-24-58	•	4×4	3×3
LGMQM4-6-60-24-58	•	4x4	4×4
LGMHM4-6-60-24-58	•	4×4	6×6

^{*}Part numbers refer to the white version only

SHK MiMo Sharkee®

FEATURES

2x2 MiMo 5G/4G/3G/2G LTE Optional 2x2 or 3x3 MiMo WiFi Optional Integrated GPS/GNSS Available in Black or White

The SHK range provides multiple functions in a single hole mounting, reducing vehicle damage, install time and visual impact. The SHK has OEM sharkfin styling and allows fast installation of multiple antennas. Available in Black or White.

IP66



Part no.	GPS/ GNSS	MiMo LTE	MiMo WiFi
SHK-7-27		2×2	
SHKG-7-27	•	2×2	
SHKG-7-27-24-58	•	2x2	2×2
SHKG-7-27-T24-58	•	2×2	3×3

Multifunction Antenna



GPSD MiMo Sharkee®

FEATURES

2x2 MiMo 5G/4G/3G/2G LTE Integrated GPS/GNSS Optional 2x2 MiMo WiFi 2.4/5.0GHz

The GPSD range has a sharkfin housing with a built in whip mounting boss and can support a range of Panorama Antennas' VHF/ UHF whips.

Requiring only a single hole fixing, the GPSD reduces vehicle damage, visual impact and cost of installation, whilst protecting vehicle resale value.

Part no.	GPS/ GNSS	MiMo LTE	MiMo WiFi
GPSD-7-27	•	2×2	
GPSD-7-27-24-58	•	2×2	2x2



GPSB Sharkee®

FEATURES

4G/3G/2G LTE
Dualband 2.4/5GHz WiFi
Integrated GPS/GNSS
OEM Style Sharkfin housing

The GPSB 'Sharkee' is an automotive multifunction antenna, which has a mounting stud for a whip antenna. A wide range of whips (single, dual or tri-band) are available for VHF/UHF and 700/800MHz band operation.

The GPSB reduces visual impact and only requires a single 19mm (3/4") hole, which results in reduced installation time/cost whilst helping to maintain vehicle resale value.

Part no.	GPS/ GNSS	LTE	WiFi
GPSB	•	•	•

Multifunction Antenna

GPS/GNSS & Whip Combination

FFATURES

Flexible VHF/UHF, cellular or WiFi whip Integrated GPS/GNSS
Single 15mm hole mount
Whip mounting stud

The GPSK antenna is a rugged combination base with a whip mounting stud. A wide range of antenna whips are available to fit the GPSK, including VHF/ UHF, Cellular and WiFi types.

The GPSK is an ideal solution for vehicle mounted terminals and Mobile Data equipment. It can also be supplied as a complete 'plug and play'.



	· ·
GPSK-TET	380-430MHz
GPSK-C3G	900, 1800, 1900, 2100MHz
GPSK-W24	2400MHz

Stingray SiSo Antenna

FEATURES

Cellular, WiFi and GPS/GNSS included Dashboard or windshield mount Suitable for M3 category vehicles (UNECE Reg 118)

This internal antenna offers a "3 in 1" solution ideal for telematics or other vehicle communications, where the antenna needs to be fitted discretely or for a "no hole" installation. The compact housing incorporates antennas for LTE / Cellular, Dual Band WiFi and GPS/GNSS.

Meeting the requirements of UNECE Regulation R 118, the antenna is suitable for use in M3 Category vehicles (Transportation). The antenna housing is UV resistant and flame retardant, while the integrated coax cables are flame retardant, low smoke specification.



Part no.	Termination
GPSCO-7-27-24-58	SMA
GPSCOF-7-27-24-58	FAKRA

Multifunction Antenna



MiMo Dash Mount

FEATURES

2x2 MiMo 5G/4G/3G/2G LTE
Optional 1x or 2x2 MiMo WiFi
Optional integrated GPS/GNSS
Mount on or under dashboard

The BATG antenna is ideal for when an external antenna cannot be fitted. It includes 2x2 MiMo for LTE / Cellular, either a single or 2x2 MiMo for WiFi and a GPS/GNSS antenna. It can be fitted on any non-conductive surface and with integral low loss cables and is an easy, quick, 'plug and play' solution which meets requirements of UN ECE 118.01; making it suitable for transportation vehicles.

Part no.	GPS/ GNSS	MiMo LTE	MiMo WiFi	WiFi
BATM-7-60		2×2		
BATGM-7-60	•	2×2		
BATGM-7-60-S24-58	•	2×2		•
BATGM-7-60-24-58	•	2×2	2×2	



Panel Mount M2M Antenna

FEATURES

Covers 5G/4G/3G/2G LTE 698-3800MHz Low Profile, compact design High impact resistant housing 600MHz version available

The Panorama LPB low profile antenna range has been designed to perform in harsh environments with a robust high impact radome only 82mm (3.2") high. When installed on a 400 x 400mm (15.7" x 15.7") ground plane, the LPB covers global LTE and cellular frequencies in the range 698-960MHz and 1710-3800MHz, making it an extremely versatile product.

Part no.	Termination	Cable Length
LPB-7-27-05SP	SMA Male	0.5m (1.6')
LPB-7-27-2SP	SMA Male	2m (6.6')
LPB-7-27-2F	FME Male	2m (6.6')
LPB-7-27-5SP	SMA Male	5m (16.4')
LPB-7-27-5F	FME Male	5m (16.4')

Cellular Antenna for Mobile Router

The Fez LTE Antenna

FFATURES

4G/3G/2G LTE

698-2700MHz

Optional 1x or 2x2 MiMo WiFi 2.4 / 5.0GHz

Optional integrated GPS/GNSS

Ground plane independent

The Fez antenna series is a range of low profile antennas incorporating a combination of wideband cellular element covering 700-2700MHz frequencies along with an active GPS/GNSS antenna and a single or dual band WiFi element all in a robust compact housing.

IP66



Part no.	GPS/ GNSS	LTE	WiFi	MiMo WiFi
LPE-7-27		•		
LGE-7-27	•	•		
LGE-7-27-24-58	•	•	•	
LGEM-7-27-24-58	•	•		2×2

GPS / GNSS Antennas

FFATURES

Active GPS/GNSS element (26dB LNA)

Vehicle positioning is an intrinsic part of vehicle and fleet management and is achieved by use of GPS/GNSS technology. An effective antenna with high performance filtering is required to provide reliable operation.

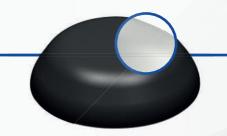
The GPSP offers a permanent, panel mounted option, whilst the GPSME provides the convenience and flexibility of a temporary, no holes solution with a tough magnetic fixing.

The GPSSV type is ideal for covert installation and is supplied with both adhesive and hook/loop pad fixings. A 3m coax cable is supplied as standard, but a version with a 30cm fly lead is available which can be used with an extension coax cable where required.



GPS/GNSS Antennas

GPSME | GPSSV | GPSP



IP65

Low Profile UHF Antenna

FEATURES

380-520 (Banded) / 800MHz Rugged design for heavy duty applications Easy installation Ground plane Independent

The Panorama low profile UHF antenna range has been designed to perform under extreme pressure. The radome is designed to withstand high impacts while maintaining its functionality.

*LG versions available with GPS/GNSS

Part no.	Frequency (MHz)		
LP390	380-400		
LP420	410-430		
LP440	430-450		
LP460	450-470		
LPL-S5	806-870		

^{*}Part numbers refer to the black version only

^{*} White version upon request

IP65

Glass Mount Antenna

FEATURES

Excellent performance No hole installation Solid state coupling (GM versions)

Quick and easy installation Windscreen or rear window

The antenna capacitive couples through glass and its high positioning gives it good performance and near omni-directional radiating pattern similar to a roof-mounted ¼ wave (For GM versions). The whip can be easily removed for the car wash.

Part no.	Frequency (MHz)
AOG143	138-148
AOG151	142-160
AOG161	156-174
GM390	380-400
GM420	410-430
GM435	425-455
GM455	445-470
GMG-S5	806-870

Special Application Antenna

Half-Wave UHF Antenna

FFATURES

Flexible whip Ground plane independent Moulded coaxial cable Suitable for vehicles or fixed site applications

The HM range antennas can he mounted on any surface. The antenna is ideal for motorcycles but can also be used on other vehicles, boats or fixed sites.The HM antenna range has a rugged design with a flexible nvlon covered whip. The base features a moulded cable entry and an M14 mounting bolt.



Fre	quency (MHz)
HM-S1	380-400
HM-S2	410-430
HM-TET	380-430
HM-433	430-440
HM-451	438-472

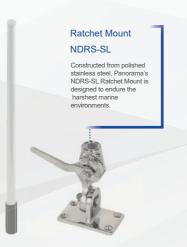
	Frequency (MHz)
HM-S4	450-470
HM-480	470-490
HM-495	480-510
HM-S5	806-870
HM-D	896-960

UHF Marine Antenna

FEATURES

Various UHF frequencies
Optional GPS/GNSS
Ratchet or deck mount option
Constructed from marine grade materials

The NA Series antenna fits standard 1"x14TPI marine mounting systems. Can also be supplied with custom extension coaxial cable sets to meet the customer's specific installation requirements.



	Fr	equency (MHz)	F	requency (MHz
NA-S1-C	SPS	380-400	NA-S1	380-400
NA-S2-0	GPS	410-430	NA-S2	410-430
NA-440	-GPS	430-450	NA-440	430-450
NA-S4-0	GPS	450-470	NA-S4	450-470
NA-S5-0	GPS	806-870	NA-S5	806-870

Special Application Antenna





Heavy Duty SiSo Transit Antenna

FEATURES

5G/4G/3G/2G LTE or UHF 698-6000MHz or 380-520MHz (Banded) Standard rail four hole fixing Optional integrated GPS/GNSS antenna

The TRNC series antenna has been designed specifically to meet railway engineering standards and features a DC grounded radiating element.

The TRNC antenna has a heavy duty cast aluminium base and is housed in a high impact, flame retardant radome moulded in Ultem which provides ingress protection to IP69K.

Part no.	GPS/ GNSS	LTE	WiFi	UHF
TRNC-7-60		•	•	
TRNCG-7-60	•	•	•	
TRNC-TET/S4				•
TRNCG-TET/S4	•			•

Magnetic Mount Antenna



FEATURES

Available in VHF + UHF bands Temporary fit Easy removal Strong magnetic retention

The MD range of antennas is a popular choice for vehicles that require a temporarily fixed antenna.

The tough magnetic base will retain the antenna to the roof or boot. Available in all standard VHF and UHF bands, as well as customer-specific frequencies.

Frequency (MHz) MD146-5 141-151 MD161-5 156-164 MD168-5 162-174 MD390-5 380-400

Frequency (MHz)		
MD420-5	410-430	
MD-TET-5	380-430	
MD-451-5	430-472	
MD-S5-5	806-870	

Special Application Antenna

UHF / VHF Elevated Antenna

FEATURES

Mast mount

VHF, UHF and Tri-Band versions Ideal for fixed radio terminal applications Quick assembly and installation

Quick and easy to assemble and deploy in the field, this is a unique antenna solution that is ideal where coverage needs to be improved.

UHF Versions

BSU-TET	380-430
BSU-TETG5	380-430 (5dBi)
BSU-UT	406-472
BSU-U	430-472
BSU-S4	450-470
BSU-W	470-512
BS800	804-870 (5dBi)

VHF Versions

BSV-E3	67-74
BSV-E4	74-81
BSV-E5	81-88
BSV-H3	132-143
BSV-H4	141-151
BSV-H5	149-159
BSV-H6	156-162
BSV-H7	162-174



BSV-155-S4-821	145-174 / 420-480 / 764-894
BSV-155-U1-B1	150-160 / 410-470 / 746-806
BSV-155-U1-S1	150-160 / 410-470 / 806-870

Rapid Deployment Clip Dipole

(CDV/CDU Series)

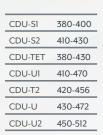
FEATURES

Rugged construction
Fast installation
Moulded in coaxial cable

The 'Clip Dipole' range is designed for quick and easy assembly and installation on remote sites. An ideal product for temporary use at a public or sports event.

Frequency (MHz)

CDV-E3	67-74
CDV-E4	74-81
CDV-E5	81-88
CDV-H3	132-143
CDV-JRC	139-157
CDV-H4	141-151
CDV-H5	149-159
CDV-H6	156-162
CDV-H7	162-174
CDV-K5	174-192
CDV-K6	192-208
CDV-K7	208-225





Rapid
Deployment
1/2 Wave

(CD Series)

FEATURES

Groundplane independent Fast 'clip on' installation Moulded coaxial cable

The performance and scope of portable equipment can often be considerably improved by elevating the antenna to a more effective height. Clip antennas provide an easy way to do this. The CD series features a rugged single end fed ½ wave element.

The jaws of the spring clip are moulded in nylon and are adjustable for any angle. The clip mount features a fully moulded coaxial connection for weather protection and resilience.

Frequency (MHz)

	<u> </u>
CD390	380-400
CD420	410-430
CD433	430-450
CD458	445-470
CD800	806-870
CD900	870-960

Special Application Antenna



Magnetic Mount Antenna

FEATURES

Magnetic mount for 'no hole' installation 698-960 / 1710-2700MHz range Covers 4G/3G/2G LTE

The LPBEM-7-27 is a new generation, high performance magnetic mount antenna that covers all global cellular & LTE frequencies.

The MAR-7-21 is a whip type compact magnetic cellular antenna for temporary mount use. It covers six of the main GSM/LTE bands supporting 2G, 3G and 4G technologies. The stylish flexible design of the antenna whip gives a discreet appearance and resistance to damage.

Part no.	Termination
LPBEM-7-27-2SP	SMA Male 2m (6.6') Cable Length
MAR-7-21-2SP	SMA Male 2m (6.6') Cable Length

Cellular Antenna for Mobile Router

Internal SiSo LTE Antenna

FEATURES

4G/3G/2G LTE 698-2700MHz Simple adhesive pad fitment Can be fitted on glass or plastic panel

The EF-BC3G-26 antenna is a low cost single 4G/3G/2G product that can be fitted on any non-conductive surface. It is typically fitted on a window and with correct spacing, a pair can be installed to provide a covert 2x2 MiMo antenna system.



Part no.	Termination
EF-BC3G-26-3SP	SMA Male

Cellular Antenna for Mobile Router

Low Profile Internal MiMo WiFi

FEATURES

Up to 4x4 MiMo WiFi 2.4/5.0GHz
Ceiling mount
Low profile, robust housing
EN50155, EN45545-2 & UN ECE 118.01

The CM(x)-24-58 range provides a compact, robust internal WiFi antenna with up to 4x4 MiMo function. It is ground plane independent and has integral ultra-low loss coax cables with pre-fitted connectors. The antenna compliance ensures that it is suitable for use in buildings, railway rolling stock and other transportation modes.



Part no.	MiMo WiFi
CM2-24-58	2×2
CM3-24-58	3x3
CM4-24-58	4x4

Public Safety & Transportation

Internal On-Glass WiFi Antenna

FEATURES

Dual band 2.4 / 5.0GHz WiFi
Compact dipole antenna
Integral sealed coaxial cable
Ideal for connection to in-vehicle router

The EF-24-58 antenna is a flexible dipole type, suitable for covert or discrete installations. The antenna is supplied with an adhesive pad and can be fixed on a vehicle window glass or plastic trim panel.

Part no.	Termination
EF-24-58-3SP	SMA Male
EF-24-58-3RPSP	Reverse Polarity SMA Male

WiFi Antenna for Mobile Router



Dipole Antenna

FEATURES

Dipole construction

Covert bumper mounting

Flexible wire elements for easy
positioning

The covert vehicle dipole antenna is specifically designed for installations where the presence of an antenna must be undetectable.

This specialist antenna is available in versions for VHF of UHF bands and requires tuning during installation to achieve optimal VSWR match. The antenna feed incorporates a 'Bazooka' balun to improve the frequency stability.

Part no.	Frequency (MHz)
VCD-VL-5F	68-88
VCD-VH-5F	130-175
VCD-S1-5F	380-400
VCD-S2-5F	410-430
VCD-S4-5F	450-470

Covert Antenna

Bodyworn Dipole

FEATURES

Dipole antenna
Tuning optimised to individuals body
Flexible wire elements
Features fully molded T-piece

This antenna can be incorporated in clothing or body armour/stab vests and should be oriented with elements on a vertical plane.

Once in position, the antenna can be tuned to achieve the optimum VSWR/match.



Part no. Frequency (MHz		Part no. Fr
BWDT-H3	132-143	BWDT-T2
BWDT-H4	141-151	BWDT-S4
BWDT-H5	149-159	DIMPT 405
BWDT-H6	156-162	BWDT-495
BWDT-H7	162-174	BWDT-815
BWDT-TET	380-430	BWDT-24

 Part no.
 Frequency (MHz)

 BWDT-T2
 420-450

 BWDT-S4
 450-470

 BWDT-495
 470-520

 BWDT-815
 806-870

 BWDT-24
 2400

Covert Antenna

Bumper Antenna

FEATURES

Fully covert application

Mounted behind plastic bumper
Flexible construction

Does not require any tuning

The Panorama Bumper Mount Antenna is designed for covert operations and other applications which require a vehicle antenna that is effectively invisible.

For optimum performance two bumper antennas can be used, one at the front of the vehicle and one at the rear, to help create a more omni-directional pattern around the vehicle and enable better network coverage. The BMP2 kits come complete with a power divider and 2 bumper mount antennas.



Covert Antenna



Internal On Glass Antenna

FEATURES

Semi covert window mount antenna Install with no vehicle damage Flexible moulding to allow fitting to curved glass

The EF 'easy fit' antennas provide an effective low-visibility 'no-hole' solution.

With their secure but easy to fit adhesive pad mountings, the EF antenna provide a huge range of possibilities for the installer and is ideal for temporary installation in short-term use vehicles.

Part no.	
EF-S1	380-400
EF-S2	410-430
EF-S3	380-420
EF-S4	450-470

Frequency (MH	
EF-W	470-512
EFBAD	698-960
EF-S5	806-870

Covert Antenna



The ODP wall mount antenna range is a simple and cost efficient way of providing an fixed antenna for fixed terminals.

Part no.	Frequency (MHz)
ODP-H5	149-159 (2dBi)
ODP-H6	156-162 (2dBi)
ODP-H7	162-174 (2dBi)
ODP-TET	380-430 (2dBi)
ODP-433	410-450 (2dBi)
ODP-S4	450-470 (2dBi)
ODP-SIG6-4B	380-400 (6dBi)
ODP-S2G6-4B	410-430 (6dBi)
ODP-S4G6-4B	450-470 (6dBi)

InBuilding Antenna

High-gain UHF Directional

FEATURES

8dBi peak gain Directional panel antenna Wall or mast mount

The WM8-TET is a directional panel antenna. The heavy duty ASA radome is resistant to weathering and suitable for outdoor use in challenging environments. The enclosure is vented by a high performance GORE® gland which allows it to breathe while keeping moisture and contaminants out, further increasing service life.



Part no.	Frequency (MHz)
WM8-TET	380-400
WM8-U2	450-520



Circularly Polarised	Frequency (MHz)	Polarisation
WM8LCP-TET-NJ	380-430	RHCP
WM8LCP-TET-NJ	380-430	LHCP

InBuilding Antenna

Ceiling Mount UHF Antenna

FEATURES

Easy installation
In building UHF coverage
Suitable for airports and stadiums

The Panorama UHF ceiling antenna can be used to provide network coverage in large buildings for the public services. Used in airports, large campus sites and shopping centres, the antenna can help to reduce holes in coverage and improve signal strength.



Part no.	Frequency (MHz)
CM-SI-08NJ	380-400
CM-S2-08NJ	410-430
CM-S4-03NJ	450-470

InBuilding Antenna



Bracket Mount

FEATURES

Used with fixed radio terminals Wall mount or mast mount Improves range

The bracket mount antenna range is an easy to install solution, ideal for a fixed radio terminal in an office.

Part no.	Frequency (MHz)
BM390	380-400
BM420	410-430
BM451	430-472
BM460	450-470
BM-S5	806-872
ВМ900	890-960

InBuilding Antenna



M8 & M8A

FEATURES

Panel mount
Rugged design
Modular stud fitting
Interchangeable whips

The M8 is the "industry standard" panel mount base. It incorporates stainless steel earthing teeth and a fully moulded construction with high quality coaxial cable for low loss and long term reliability.

The base is easy to fit and can be installed from above or below the panel. With the modular stud fitting, almost any antenna in the Panorama range can be fitted to the base.

Part no.	Panel Thickness	
M8	0-4mm	
M8A	4-6mm	

Modular Base

MMR

FEATURES

Temporary mount
Rugged magnetic mount
Modular stud fitting

The MMR is large secure magnetic base for professional use that supports a full range of antenna whips. It features a fully moulded construction with high quality coaxial cable.



MMR-5 5m (16.5")	Part no.	Cable Length
	MMR-5	5m (16.5")

Modular Base

NMO Panel Mount Base

FEATURES

Panel mount
Suitable for various whips
Stainless steel earthing teeth

The Panorama 'NMO' 3/4 inch panel mount antenna base combines compatibility with NMO style antennas with rugged engineering and high quality construction.

This quality panel mount is made from nickel plated brass to resist corrosion, and the earthing teeth are stainless steel to provide excellent earthing with every installation.



SAB-181

The NMO fitting can be converted to Panorama modular stud with the SAB-181 accessory. This allows use with the full modular antenna range. The fitting can be used with both products.



Panel Mount Base With GPS

FEATURES

Panel mount
Rugged low profile design
NMO fitting
Interchangeable whips

The GPSNMO is a GPS combination antenna that features a low-profile NMO mount and a high-performance GPS element with 26dB gain I NA

This base fits on panels up to 6.5mm thick with a single hole, and is supplied with 5m length cables.



Modular Base Modular Base



Rigid ¼ Wave

1/4 wave whip Removable for car wash Hinged & non-hinged versions

The AQB & AQHB are Panorama's standard single frequency 1/4 wave rigid whips. These antennas feature a 17-7 PH stainless steel rod with a plated brass terminal protected by black nylon moulding.

Hinged	Non-Hinged	Frequencies (MHz)
AQHB-H4A	AQB-H4A	138-155
AQHB-H6A	AQB-H6A	155-174
AQHB-TET	AQB-TET	380-430
AQHB-U	AQB-U	430-472
AQHB-W	AQB-W	470-512
AQHB-S5	AQB-S5	806-870

Modular Whips

High-gain Whips

FEATURES

High gain
Removable for car wash
Hinged & non-hinged versions

The A5G series is a 5dBi broadband colinear antenna. The phasing coil is over-moulded to provide a rugged antenna for demanding applications. The ACU series is a 7dBi gain antenna for use where network coverage is poor.



Non-Hinged	Hinged	Frequencies (MHz)
A5GM-TET	A5GH-TET	380-430
A5GM-S4	A5GH-S4	450-470
ACUB-S1	ACUHB-S1	380-400
ACUB-S2	ACUHB-S2	410-430
ACUB-U	ACUHB-U	430-472
ACUB-460	ACUHB-460	450-470
	ACUHB-W	470-512

Modular Whips

Medium Gain Whips

FEATURES

Gain whips
Rugged construction
Hinged base and removable whip

The AVGHB/AUGHB range is a durable solution for vehicle installations requiring a medium gain antenna. The antennas feature a fully encapsulated impedance matching coil and a 17-7PH stainless steel whip.



Frequencies (MHz)		Frequencies (MHz)	
AVGHB-H4	141-151	AUGHB-S1	380-400
AVHGB-H5	149-159	AUGHB-S2	410-430
AVGHB-H6	156-162	AUGHB-TET	380-430
AVGHB-H7	162-174	AUGHB-U	430-472

Modular Whips

VHF Wideband Antenna



Wideband VHF antenna Integrated shock mount

The AVWB is a rugged wide band VHF antenna, suitable for users who operate over the full range of VHF frequencies.

The AVWB is compatible with all of the modular bases in the Panorama range.

Supplied with an integrated shock mount, the antenna is protected from impact and damage in low clearance situations

Part no.	Frequencies (MHz)
AVWB-SM-39-68	138-169
AVWB-SM-51-74	151-174

Modular Whips

VHF ¼ Wave Flexible Whip

FEATURES

OEM bee-sting style
Wideband ¼ wave
Flexible overmoulded base

The AFBQ is a rugged VHF ¼ wave whip for use on GPSK & GPSB base types. This antenna whip is styled to resemble an OEM 'bee sting' type design and is both discrete and durable, featuring an overmoulded shock spring and stainless steel rod.

Part no.	Frequencies (MHz)
AFBQ-H4A	138-155
AFBQ-H6A	155-174
AFBQ-H5	149-159
AFBQ-H7	162-174

Combination Base Whip

5dBi Gain Flexible Whips

FEATURES

OEM bee-sting style High peak gain Flexible overmoulded construction

The AFGB offers omni-directional performance with 5dBi peak gain. The antenna whip is styled like an OEM 'bee-sting' type antenna and is both discrete and durable featuring an overmoulded coil and stainless steel rod.

The antenna base is flexible for added damage resistance and can be mounted on a range of Panorama GPS combination bases.

Part no.	Frequencies (MHz)
AFGB-395	380-410
AFGB-S2	410-430
AFGB-S4	450-470
AFGB-832	760-870
AFGB-B1	745-806
AFGB-S5	806-870

Combination Base Whip

¼ Wave Flexible Whips

FEATURES

1/4 wave whip 2dBi Gain Removable for car wash Rugged and flexible

AFB type features a multi-wire elements within a black nylon tube.

AFNT type features a nickel titanium wire for ultra flexibility and low visibility.



Free	uencies	(MAH-)
rrec	luencies	(IVITIZ)

		AFB-S1	380-400
Freque	encies (MHz)	AFB-S2	410-430
AFNT-H4A	138-155	AFB-TET	380-430
AFNT-H6A	155-174	AFB-U	430-472
AFNT-TET	380-430	AFB-UT	406-472
AFNT-U430	450-470	AFB-S4	450-470
AFNT-U2	450-512	AFB-W	470-520

Combination Base Whip



Tri-Band Whips

FEATURES

Tri band function
Flexible rod with wound element
Fits Panorama GPS combination bases

The ASF whips are stylish, discrete and durable, featuring a flexible overmoulded base section and a black jacketed flexible wound rod element.

Designed to be mounted on the GPSB, GPSD and GPSK range of bases, and used with a Panorama Triplexer.

Part no.	Frequencies (MHz)
ASFC-155-U2-B1	150-160 / 450-512 / 745-806
ASFC-155-U2-S5	150-160 / 450-512 / 806-876
ASF-155-S4-821	150-160 / 450-470 / 764-896

*Base sold seperately

Combination Base Whip

VHF / UHF Diplexer

FEATURES

Allows dual band antenna to be used with 2 radios or dual band radio with seperate VHF and UHF antennas

The Panorama VHF/UHF diplexer is housed in a compact, robust die cast case for reliability and easy mounting.

The Diplexer uses a stripline design to provide low insertion loss with high port to port isolation and high power handling capability.



Part no.		Frequencies (MHz)
DDV 210, 270	VHF	50-210
DPX-210-270	UHF	270-1000

Accessories

VHF / UHF / 7-800MHz Triplexer

FEATURES

Low insertion loss, high port-to-port isolation Use one antenna for 3 radios or vice versa VHF, UHF, 7/800MHz

The Panorama triplexer, TPX-VH-UHF-BA-TNC can either combine the signals from three antennas to a single multiband radio or split the signal from a tri-band antenna to three separate radios. Each port provides a low insertion loss passband for the respective frequency range. The unit is available with TNC female connector type on each port

This compact unit requires no power and can easily be installed in the roof lining of any vehicle or mounted pext to the radio



Part no.		Frequencies (MHz)
	VHF	136-174
TPX-VH-UHF-BA-TNC	UHF	380-520
	7/800	760-896

Accessories

VHF / UHF With 7-800MHz Diplexer

FEATURES

Use one antenna for 2 radios Splits VHF & UHF from 7/800MHz & cellular Easy to install

The DPX-500-700 offers the opportunity to utilise a single multiband antenna with two radios. This conserves valuable vehicle real estate and saves on antenna installation costs.

The diplexer has low loss characteristics and is perfect for splitting a single antenna to a VHF or UHF radio and a 7/800MHz radio.

The diplexer is compact enough to locate in a vehicle headliner and is fitted with FME (m) connectors.



Part no.		Frequencies (MHz)	
DPX-500-700	VHF/UHF	50-500	
	700-2500	700-2500	

Accessories

Low / High Pass Filter

FEATURES

Low insertion loss High out of band rejection F-HP270-F (High Pass Filter) F-LP270-F (Low Pass Filter)

The F-HP270-F offers an ideal solution for protecting UHF radios from out of band interference. The F-HP270-F can be used with the F-LP210-F to protect co-located VHF / UHF systems from interfering with each other.

The filter is compact enough to locate in a vehicle headliner and is fitted with FME (m) connectors on all ports.



Part no.	Frequencies (MHz)		
F-LP210-F	0-210		
F-HP270-F	270-1000		

Accessories



UHF Antenna Combiner

FEATURES

Combines two UHF radios to one

When you can only fit one antenna on a vehicle, then this combiner is the solution providing > 26dB isolation over 380-430MHz with an antenna match at 1.2.1 and low insertion loss

Technical Note:

The isolation provided by this device is dependent on the antenna VSWR. An antenna match of 1.5:1 VSWR will result in a reduction of isolation to 20dB. Higher VSWR on the antenna port will result in a further reduction in isolation between the TX ports. does not exceed 1.5:1.

Part no.	Frequencies (MHz)
DBLC-TET-N	380-430

Accessories

GPS Splitter

FEATURES

Reduce installation costs
Run two GPS receivers from
a single antenna
DC block on one port

The Panorama DPD-GPS allows you to run two GPS receivers from a single antenna. The DPD-GPS splits the received signal from the antenna to two receivers while only allowing one of the receivers to feed voltage to the antenna, ensuring that the antenna is able to function correctly.

The DPD-GPS allows both GPS receivers to use an optimally located antenna, thereby reducing clutter and installation costs.



Part no.	Frequencies (MHz)
DPD-GPS	1562-1614

Accessories

VHF/UHF Splitter/ Combiner

FFATURES

Optimise antenna performance
Connect two antennas to one radio

The HPDPD-550 series is a range of power dividers designed to split the power from a radio to distribute it to two separate antennas. Designed to support Panorama Antennas' covert VCD (VHF) and BMP (UHF) bumper / fender mount antennas the HPDPD-550 range comes in three variants for up to 15W, 60W and 150W Input Power respectively,

Covering a frequency range from 50-550MHz the HPDPD efficiently distributes power to two antennas with low insertion loss allowing users to install covert antennas at opposite ends of a vehicle to ensure maximal coverage.



Part no.		Frequencies (MHz)	
ŀ	HPDPD-550	50-550	

Accessories



MTP850 Adapter

FEATURES

Remote antenna adaptor for Motorola MTP850 radio Spring loaded contact pin Sturdy quick release lock

A 'one of a kind product' the ADPT-85-05SJ is specifically designed for use with the Motorola MTP850 TETRA radio. With spring loaded contact pin and durable quick fit/release feature, it is both simple to connect and reliable to use. Designed for use with any antennas from Panoramas' temporary, vehicle and body worn ranges the ADPT unlocks the full potential of the MTP850 radio for covert, surveillance and other tactical applications.

Note: The standard belt clip cannot be used in conjunction with this adaptor.

Termination

Cable Length	50cm (19.6")
Cable Type	RG316
Connector	SMA Jack (f)

Specialist Antenna

Ultra-flexible UHF Portable Antenna

FEATURES

Radio specific ¼ wave whip Ultra-flexible multi strand wire whip Fully moulded connector Ideal for covert/bodyworn applications This antenna features an ultra-flexible ¼ wave whip. Tuned to match the radio characteristics, it will provide consistent performance across the full operating frequency range.

Part no.	Compatibility		
SFQ-SC21-TET	Sepura SC21		
SFQ-SRP2-TET	Sepura SRP/SRH		
SFQ-MT8-TET	Motorola MTP850		



	F / UH ennas		rtable	e			
	MXK	J PXK	MFX	MFXU	MVQ	MQ	PUG
Description	moulded compressed helical	moulded compressed helical	moulded VHF helical	moulded UHF helical	moulded UHF quarterwave	moulded UHF quarterwave	UHF halfwave
Freq. (MHz)	67-88	141-225	141-366	330-512	141-336	330-512, 698-960	350-512

^{*}Various connector / radio types available. Check Panorama website.

Coaxial Adapters

Panorama has an extensive range of coaxial adaptors for different applications.

Our most popular types are listed here – enquire if you don't see what you need.

Part no. CA-BP-FP BNC Plug (m) to FME Plug (m)	•••••	O
Part no. CA-TP-FP TNC Plug (m) to FME Plug (m)	•••••	Or
Part no. CA-SP-FP SMA Plug (m) to FME Plug (m)	•••••	
Part no. CA-NP-FP N Plug (m) to FME Plug (m)	••••••	
Part no. CA-FP-FP FME Plug (m) to FME Plug (m)	••••••	
Part no. CA-PLP-FP PL259 Plug (m) to FME Plug (m)	•••••	
Part no. CA-MP-FP Mini-UHF Plug (m) to FME Plug (m)	••••••	
Part no. CA-NP-SAJ N Plug (m) to SMA Jack adapter (f)	••••••	O P

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