

Product brochure

Marine Antennas

Categories

- VHF
- MF / HF (SSB)
- UHF
- Receiving
- GPS
- Broadcast
- Mounting and accessories



Marine Parts

Receive everything

anywhere, anytime



Marine antennas

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Marine Parts

Specialized in the global distribution of marine radar spare parts and marine products like power voltage converters, antennas, nautic monitors and batteries.

Every antenna is developed in accordance with:

- MIL-STD 810E: temperature, salt, ice, sun irradiation resistance.
- MIL-STD 167-1: vibration resistance.
- MIL-STD 810E: shock resistance.

Specifications are subject to change without notice.

AEP Marine Parts is not responsible for typographical errors or obsolescence of products.

AEP VHF Antennas

Communicate well

Your VHF antenna up to 6 meters long. Good quality and quickly available.

Wide applicability

Many marine companies use the MP4 model, because of the wide frequency bandwidth, the wide applicability and the mounting nut which is included. All other MP4xx models have the same wide applicability, the main difference is the standard included mounting.



*Specific specifications

You will find several VHF antennas and their specifications in the table on the next page. If you are looking for an antenna with different specifications, please contact us: customized solutions are our strength.

Mounting advice

Antenna	Standard inclusive	Possible mounting*
MP4	MP1193C mounting Nut	
MP 41	MP1193C mounting nut	
MP 42	MP210 mast bracket	
MP 43	-	MP211C
MP 44	N275F mast mount	MP1193C
MP 45	MP620-2C mast/rail mount	MP533C
MP 46	-	MP620-2C
MP 49	-	
MP3 – 5 5/8	-	
MPVHF300	Stainless steel L-bracket	-
MPVHF301	N connector flange	-

There are lot of options to mount your antenna. Special tuning is possible, please ask for advice; we are glad to help you.



PL-female connector



N-female connector



Choose your VHF antenna

Which antennas can I order?*

Product number	MP4 MP42 MP43 MP45	MP41 MP44 MP46	MP49	MP3 - 5/8	MPVHF300	MPVHF301
Bottom diameter (mm)	28		28	28	10	10
Fittings	from diameter 25 mm (1" W) to diameter 50 mm (1" 1/2G)		from diameter 25 mm (1" W) to diameter 50 mm (1" 1/2G)	from diameter 25 mm (1" W) to diameter 50 mm (1" 1/2G)	Stainless steel "L" Bracket	N connector flange
Structure	Epoxy Fiberglass					
Finishing	Polyurethane Paint					
Colour	White RAL 9000, Grey RAL 7001					
Ferrule	Chrome plated brass					
Working temperature	-35°C / +80°C					
max wind resistance	150 Km/h					
Length (m)	1.20		2.50	2.50	0.25	0.25
Weight (kg)	1.00		2.00	2.00	0.20	0.20
Conform with:	MIL-STD 810E MIL-STD 167-1 MILS-STD 810E					
Frequency (Mhz)	144 - 163	144 - 163	118 -136	156 -163	156 -163	156 -163
Antenna type	1/2 wave dipole		1/2 wave dipole	5/8 Wave elements	-	-
Irradiation elements	Brass tubes gold plated		Brass tubes gold plated	Brass tubes gold plated	-	-
bandwidth at s.w.r. <1,5 (Mhz)	19		19	19	-	-
S.W.R.	See diagram		See diagram	See diagram	1.1	1.1
Impedance (ohm)	50					
Gain	0 db half wave dipole 3 db isotropic		3 db half wave dipole 6 db isotropic	3 db half wave dipole 6 db isotropic	-3 db half wave dipole	-3 db half wave dipole
Max input (watt)	100		100	100	25	25
Polarization	vertical					
Horizontal Diagram	360°		360°	360°	-	-
Vertical Diagram	60°		60°	45°	-	-
Connector	PL female	N-Female	PL female	PL female	18 m RG-58	6.60 m cable RG-58
Lightning protection	DC ground		DC ground	DC ground	DC Ground	DC Ground

All S.W.R. diagrams can be found at page 19.

AEP MF/HF Antennas

Be reachable

You can opt for antennas with an extra wide diameter to 52 millimeters. To ensure durability.

Performance matching your request

Every antenna is designed to resist most (bad) weather conditions. Think for example of the high maximum wind resistance, the working temperature, the antenna diameter and the used materials.

Your desired length, weight and power

There is great variety in the length, weight and power of the MF/HF antennas showed at the next page. So you can choose the one that suits you best.



If you are looking for an antenna with different specifications, please contact us: customized solutions are our strength.



MP50RXT
Waterproof Coax Connection Box with transformer for antennas from 8 meters



MP40RXT
Waterproof Coax Connection Box with transformer for antennas up to 7 meters



MP120RXT
Transformer connection



MP121RX
Coax connection

Mounting

Every MF/HF antenna is supplied including mounting. How the antenna supposed to be mounted, can be derived from the product number. After the basic product number "MPxxx" the used letters stand for:

- D = Deck mounting
- M = Mast mounting
- S = Side feed connections

The technical specifications of the bracket that comes with the antenna can be found at our website.

Choose your MF/HF antenna (1)

Product number	MP1002D	MP1002DS	MP1002MS	MP903MS	MP850D	MP850DS	MP850MS	MP802MS	MP803MS	MP722D	MP622D	MP712DS	MP612DS	MP923D
Section	2	2	2	3	2	2	2	2	3	2	2	2	2	3
Bottom diameter (mm)	52	52	52	40	52	52	52	40	40	40	40	40	40	40
Structure	Epoxy Fiberglass													
Finishing	Polyurethane Paint													
Colour	White RAL 9000* Grey RAL 7001 **													
Ferrule	Chrome plated brass ***													
Working temperature	-35°C + 80°C													
Max wind resistance	150 km/h													
Length Fiberglass (m)	10.00	10.00	10.00	9.00	8.50	8.50	8.50	8.00	8.00	7.00	6.00	7.00	6.00	9.00
Length Electrical (m)	10.00	9.60	9.60	8.00	8.50	8.10	8.10	7.00	7.00	7.00	6.00	6.70	5.70	8.00
Length bottom section (m)	5.40	5.10	5.10	4.00	4.80	4.50	4.50	4.00	3.00	4.00	3.00	4.00	3.00	4.00
Length medium section (m)				2.50					2.50					2.50
Length top section (m)	4.90	4.90	4.90	2.50	4.00	4.00	4.00	4.00	2.50	3.00	3.00	3.00	3.00	2.50
Weight (kg)	14.00	13.00	13.00	10.00	12.00	11.00	11.00	8.00	9.00	7.00	6.00	7.00	6.00	10.00
Conform	MIL-STD 810E MIL-STD 167-1 MILS-STD 810E													
Base torsion force (N)	400	400	250	320/250 (1)	350	350	200	280/200 (1)	80/200 (1)	150	120	150	120	220
Frequency (Mhz)	1.6 -30 transmission ATU 0,15-30 reception with transformer													
Irradiation elements	Brass													
Max input (watt)	2000	1500	1500	1200	1500	1000	1000	1200	1200	1000	800	1000	800	1200
Polarization	Vertical													
Horizontal Irradiation	360 °													
Connection	TX with high insulation cable RX with coax cable RG-58 or RG-213													
Connector	8 mm bolt													

General features

Electrical features

* standard
** option
*** 20µm copper, 20µm nickel, 5µm chrome

Check the next page for more MF/HF antennas.



Choose your MF/HF antenna (2)

Product number	MP823D	MP723D	MP913DS	MP813DS	MP713DS	MP702MS	MP603MS	MP602MS	MP703MS	MP560MS	MP560DS	MP500MS	MP480MS
Section	3	3	3	3	3	2	3	2	3	2	2	2	2
Bottom diameter (mm)	40	40	40	40	40	28	28	28	40	39	39	28	25
Structure	Epoxy Fiberglass												
Finishing	Polyurethane Paint												
Colour	White RAL 9000* Grey RAL 7001 **												
Ferrule	Chrome plated brass ***												
Working temperature	-35°C + 80°C												
Max wind resistance	150 km/h												
Length Fiberglass (m)	8.00	7.00	9.00	8.00	7.00	7.00	6.00	6.00	7.00	5.60	5.60	5.00	4.80
Length Electrical (m)	7.00	7.00	8.70	7.70	6.70	6.00	6.00	5.20	6.00	6.50	6.50	4.50	
Length bottom section (m)	3.00	2.50	4.00	3.00	2.50	4.00	2.00	3.00	2.50	3.00	3.00	2.50	
Length medium section (m)	2.50	2.50	2.50	2.50	2.50		2.00		2.00				
Length top section (m)	2.50	2.00	2.50	2.50	2.00	3.00	2.00	3.00	2.50	2.60	2.60	2.50	
Weight (kg)	9.00	7.00	11.00	9.00	7.00	6.00	3.50	5.00	8.00	3.00	3.00	3.00	3.00
Conform	MIL-STD 810E MIL-STD 167-1 MILS-STD 810E												
Base torsion force (N)	180	150	220	180	150	35/70 (1)	45/85 (1)	30/85 (1)	45/85 (1)	40	150 (1)	75	70
Frequency (Mhz)	1,6 -30 transmission ATU 0, 15-30 reception with transformer												
Irradiation elements	Brass												
Max input (watt)	1200	1000	1200	1200	1000	1000	500	800	1000	500	500	500	500
Polarization	Vertical												
Horizontal Irradiation	360 °												
Connection	TX with high insulation cable RX with coax cable RG-58 or RG-213												
Connector	8 mm bolt Bolt M 6												

General features

Electrical features

* standard
** option
*** 20µm copper, 20µm nickel, 5µm chrome



AEP UHF Antennas

Small but effective



(Mobile) radio telephone communication

UHF antennas of the 400 - 470 Mhz band are most effective for mobile communications. The antenna MPU32 as shown below is the one we advise you as the best UHF antenna as regarding the price-quality combination.



Other types are available

Besides the MPU32; there also other UHF models available; with different lengths and frequency combinations. If you are looking for an antenna with different specifications, please contact us: we are glad to help you.

Antenne details

General features	Product number	MPU32
	Bottom diameter (mm)	26
	Fittings	Insertion on diameter 26 mm pipe with nut 1 "G
	Structure	Epoxy Fiberglass
	Finishing	Polyurethane Paint
	Colour	White RAL 9000
	Ferrule	Chrome plated brass
	Max wind resistance	150 km/h
	Length Fiberglass (m)	0.60
	Weight (kg)	1.00
Electrical features	Frequency (Mhz)	400-470
	Antenna type	dipole with passive radiator
	S.W.R.	<1,5 complete band
	Impedance (ohm)	50
	Gain	3 db half wave dipole
	Max input (watt)	100
	Polarization	vertical
	Connector	N Female
	Lightning protection	DC Ground
	Mounting*	MP211C / MP1193C / MP533C / MP620-2C

There are lot of options to mount your antenna. Special tuning is possible, please ask for advice; we are glad to help you.

*Check page 20 for mounting details

AEP Receiving Antennas

Specific frequencies

You need an antenna with other specific specifications? Please ask us, we can almost certainly supply it to you.

Small frequency width, great gain

These antennas are developed to perform in narrow band widths, by which they get great gain. They are in great variety of length and bottom diameter.

Passive and active

If you even need more power for your antenna and so a wider reach, you can choose for an active receiving antenna. Look for the specification of every (passive and active) receiving antenna at the next page.



If you are looking for an antenna with different specifications, please contact us: we are glad to help you.



Possible accessory
MP400RXT for MP420M
 Impedance transformer*



MPNAVTEXP-COAX

Mounting advice

Antenna	Possible mounting*
MP420M	Fixing brackets standard included
MPLORAN/DPGS	Helix base
MPNAVTEXP	MP211C MP1193C MP533C MP620-2C
MPNAVTEXP-COAX	Please request
MPNAVTEXA	MP211C MP1193C MP533C MP620-2C

There are lot of options to mount your antenna. Special tuning is possible, please ask for advice; we are glad to help you.

Choose your receiving antenna

Which antennas can I order?

Productnummer	MP420M	MPLORAN/ DGPS	MPNAVTEXP	MPNAVTEXP-COAX	MPNAVTEXA
Type	Passive	Passive	Passive	Passive	Active
Bottom diameter (mm)	20	10	28	28	20
Fittings	from diameter 30 mm (1" G) to diameter 93 mm (2" 1/2 G)	5/8 " Male	On pipe tube 1" gass thread	1" - 14 threads	Insertion on diameter 26 with fixing bolt 1" gass thread
Structure	Epoxy Fiberglass				
Finishing	Polyurethane Paint				
Color	White RAL 9000 Grey RAL 7001				
Ferrule	Chrome plated brass***				
Working temperature	-35°C + 80°C				
Length Fiberglass (m)	4.00	2.50	0.50	0.50	1.20
Weight (kg)	4.00	1.20	1.00	1.00	2.00
Frequency (Khz)	2170-2190	1575.42	490-518	490-518	NAV 4209.5 490/518
S.W.R.			See diagram	See diagram	
Impedance (ohm)	50		50	50	50
Gain			-3 db half wave dipole	-3 db half wave dipole	3 db on 10 m wire 0 db on 7 m wire
Polarization	vertical		vertical	vertical	
Connector	PL Female		PL Female	10m RG-58 COAX cable	SO239 female (insulated from ant. body)
Lightning protection			DC ground	DC ground	Schotty diode + gas arrester
Approvals in accordance with:	MIL-STD 810E MIL-STD 167-1 MILS-STD 810E				MIL-STD 810E MIL-STD 167-1 MILS-STD 810E
Base torsion force (N)	50 (at max wind speed)		5 (at max wind speed)	5 (at max wind speed)	20 (at max wind speed)
Supply voltage					10 VDC
Supply current					40mA
Noice protection					Galvanic insulation

*** 20µm copper, 20µm nickel, 5µm chrome



AEP GPS Antennas

Well positioned

Save on space and money.
Combine VHF and GPS signals in one antenna.

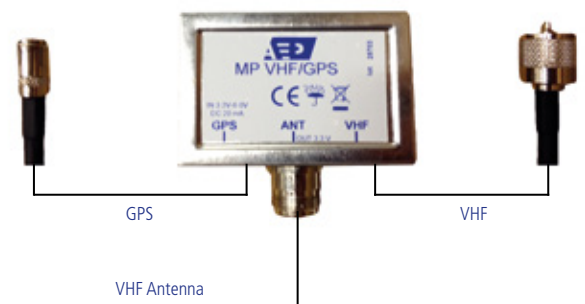
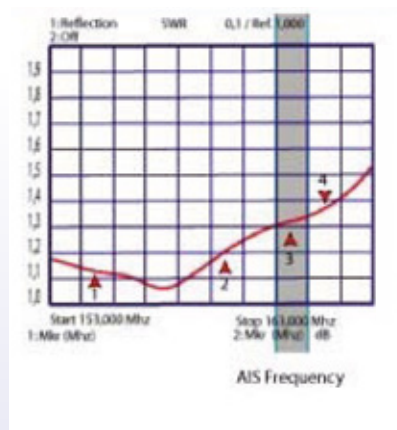
Easy to use

Especially the MPGPS antenna is easy to install: directly on the deck, on a rail mount or on any of the 1" - 14 standard marine mounts. It is no problem to walk on the antenna. If you want to combine your VHF and GPS signals, you can use the MPVHFGPS antenna; it is supplied including splitter.



Specific specifications

The specifications of the standard GPS antennas are shown at the next page. If you are looking for an antenna with different specifications, please contact us: customized solutions are our strength.



Choose your GPS antenna

Which antennas can I order?

	Product number	MPVHFGPS	MPGPS
General features	Bottom diameter (mm)	20	90
	Fittings	1" Gass pipe mount bolt or 1"/14th Male thread	1"-14th female or 1" gass bolt
	Structure	Epoxy Fiberglass	ABS
	Finishing	Polyurethane Paint	
	Colour	White RAL 9000	
	Ferrule	Chrome plated brass*	Stainless steel brass
	Working temperature	-50°C + 60°C	-50°C + 60°C
	max wind resistance	150 km/h	
	Length Fiberglass (m)	1.20	0.12
	Weight (kg)	0.50	0.05
Electrical features	Frequency (Mhz)	VHF: 156-163 GPS:1575.42	1575.42
	Antenna type	VHF: coaxial dipole GPS: quadrifillar helix	quadrifillar helix
	S.W.R.	VHF: See diagram GPS: 1:1	
	Impedance (ohm)	50	
	Gain	VHF: 3 db GPS: 25 dbic	+25 dbic (amplifier)
	Supply voltage	Antenna: 2,8 - 3,3 VDC / GPS: 3,3 - 6 VDC	3-6 volts DC feed through connector + center pin
	Supply current	15 mA	
	Max input (watt)	25	
	Polarization	VHF: Vertical GPS: RHCP	RHCP
	Connector	N Female	
	Lightning protection	Yes	
	Base torsion force (N)	55 (at max wind speed)	
	Cable length	RG 58: Max 20 m. / RG 213: Max 40 m.	

* 20µm copper, 20µm nickel, 5µm chrome

AEP Broadcast Antennas

Brings the world to you

The whole standard range of broadcast antennas is shown at our website. Combine and choose your solution.

Mobile phone, internet and radio

It is your choice how to connect with the world. If you want to communicate via your mobile phone all over the world, use the MPGSM5 antenna. As a 5-band antenna it supports all GSM networks around the world.



Multiple combinations are possible

The antennas shown at the right page are just a selection of all the broadcast antennas possibilities. View all the standard possibilities on our website, or contact us for all (customized) solutions.

Mounting advice

The following mounting possibilities are suitable in general for the displayed antennas: MP211C, MP1193C, MP533C or MP620-2C*. However, there are a lot of options to mount your antenna. Special tuning is possible, please ask for advice; we are glad to help you.



Choose your broadcast antenna

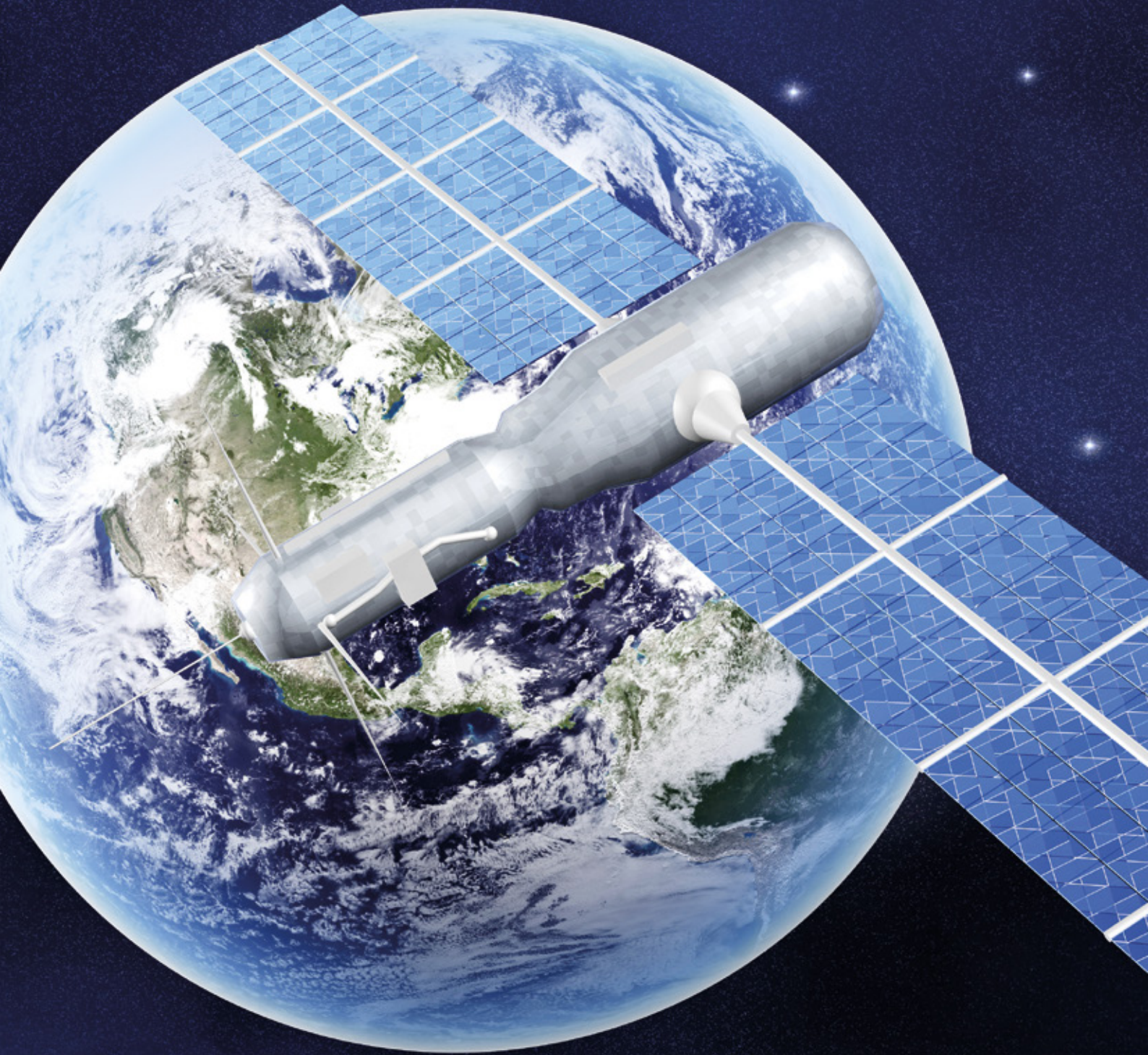
Which antennas can I order?

	Product number	MPGSM5	MP-AM/FM	WIFI	WIFI
General features	Purpose	5-band GSM	AM/FM	MPWIFI	MPWIFI-USB
	Fittings	insertion on diameter 26 mm pipe with bolt 1" G	1" - 14 threads female	1" -14th male or 1" Gass bolt	USB Connector (included)
	Structure	Epoxy Fiberglass			
	Finishing	Polyurethane Paint			
	Colour	White RAL 9000			
	Ferrule	Chrome plated brass*		Chrome plated brass*	Chrome plated brass*
	Working temperature	-35°C + 80°C			
	Length Fiberglass (m)	0.30	1.50	0.35	0.60
	Weight (kg)	0.33	0.33	0.4	0.25
	Cable length				5 m. USB-cable**
Electrical features	Frequency (Mhz)	USA GSM 806-900 EUR GSM 840-960 DCS 1900 1710-1880 PCS 1900 1850-1990 UMTS 1920-2170 ***		2400 - 2500 Mhz	2400 - 2500 Mhz
	Antenna type	1/2 wave			
	Impedance (ohm)	50			50
	Gain	3 db			
	Max input (watt)	20			
	Polarization			Vertical	
	Connector	N Female		N Female	USB 2.0
	Lightning protection			DC Ground	

* 20µm copper, 20µm nickel, 5µm chrome

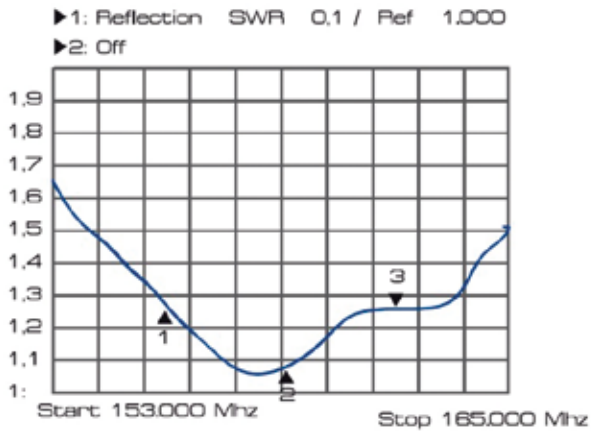
** Cable is included, as well as CD and instruction manual

*** See page 19 for the S.W.R. frequency diagram

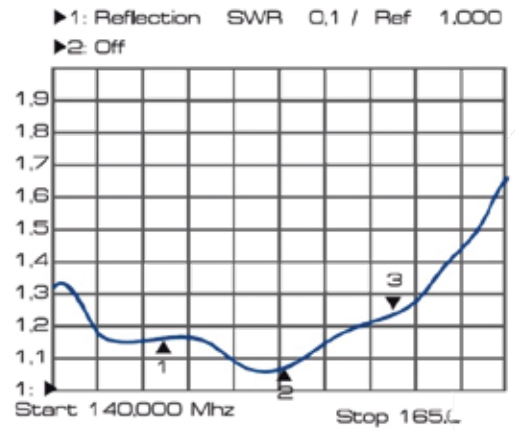


Diagrams

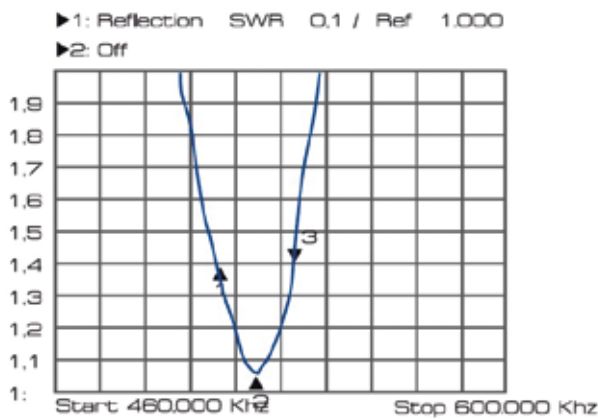
S.W.R. & frequency



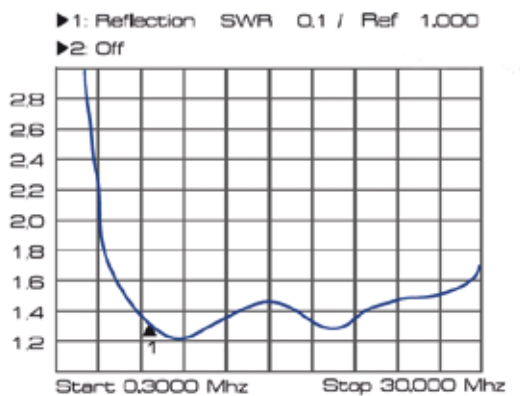
S.W.R. MP3 – 5/8



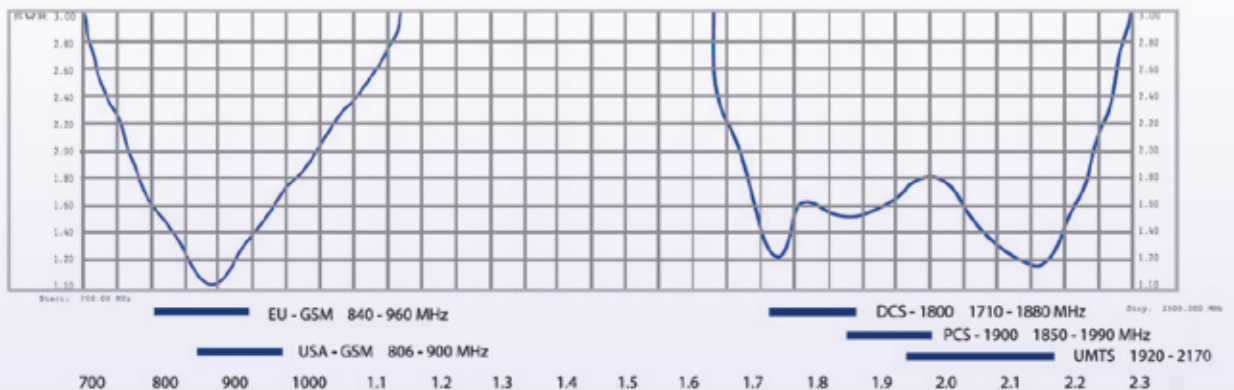
S.W.R. MP4xx series



S.W.R. MPNAVTEXP



S.W.R. MPNAVTEXP-COAX



Frequency MPGSM5

Mounting brackets & Connections

Top 4 mounting suitable for MP4xx series and most other antennas



MP211C

MP533C

MP1193C

MP620-2C

MP211C Tubular Support

Material: Chrome plated brass
 Length: 110 mm
 Mounting: 1"14 female thread
 Hole: for cable RG-213

MP1193C 1" mount

Material: Chrome plated brass
 Bolt: 1" gas female
 Including: O ring, precise insertion adapter

MP533C Mast L Bracket

Material: Stainless steel
 Including: Mounting bolt

MP620-2C Large L Bracket

Material: Stainless steel
 Including: 1 mounting bolt, Washer 1"-14



MP50RXT



MP120RX



MP121RX

Connections to make your antenna receiving

MP50RXT Waterproof Coax Connection box with transformer

Frequency: 0.15 – 30 Mhz
 Connection: Coax cable
 Ground: Side bolt
 Lightning protection: Gas arrester

MP120RX Transformer Connection

Frequency: 0.15 – 30 Mhz
 Connection: PL female
 Ground: Side bolt
 Lightning protection: Gas arrester

MP121RX Coax connections

Frequency: 1.6 – 30 Mhz
 Connection: PL Female
 Ground: Side bolt
 Lightning protection: -



MP40RXT



MP400RX-T

MP40RXT Waterproof Coax Connection box with transformer

Frequency: 0.15 – 30 Mhz
 Connection: Coax cable
 Ground: Side bolt
 Lightning protection: Gas arrester

MP400RX-T Impedance transformer

Frequency: 0.5 – 30 Mhz
 Connection: PL Connector
 Ground: Side bolt
 Lightning protection: Gas arrester

AEP Antenna stainless steel Mountings Brackets & Accessories



MP630C



MP1204C



MP54C



MP146C



MP210C



MP199C TV BASE



MP198C



MP154C



MP503C



MP652C



MP1505C



MP717C



MP063C



MP064C



MP650C

MP630C BIG SPRING

Material: Stainless steel
Mounting: 1"-14 female thread

MP1204C Connector cover cap supplied with all antennas

MP54C WHITE NYLON BASE

4 way, white nylon body, Stainless steel 18/8 (A2) hardware. 1" -14 threads

MP146C RAIL FAST BASE

White nylon base, for 1" dia rails, 1" -14 threads

MP210C

L-Bracket for VHF

MP199C TV BASE

White nylon base for TV 250 00054

MP198C FIXED BASE

White nylon for GPS Mount, 1" -14.

MP154C WHITE NYLON BASE

1 way, white nylon body, stainless steel 18/8 (A2 hardware), 1" dia. Male 14 threads

MP503C

S/S deck Mount for TU antennas
1" gas standard

MP652C

NAVY Mount for GP1 antennas

MP1505C PIPE BRACKET

Stainless steel Bracket 1" gas standard mount on pipe from 1" G up to 2" 1/2 G
Stainless steel ai5i 304

MP717C RAIL BRACKET

S/S Bracket 1" gas threaded tube for TU and navy Mount
Stainless steel

MP063C For TV antenna

BRACKET – TV 00550 S/S Mast Mount diameter 40 mm (1"1-2)

MP064C For TV antenna

BASE – S/S tubular support
For antenna TV 00350 – 00550
Diameter 40 mm (1"1-2)

MP650C Fixing bracket

Material: Stainless steel
Standoff: 350 mm
Min mast diameter: 33 mm - 1"
Max mast diameter: 83 - 2"1/2

AEP Antenna stainless steel Mountings Brackets & Accessories



MP23C



MP21C



MP24C



MP46C TV BASE



MP197C



MP16C



MP618C



MP055C



MP255C



MP505C



MP504C



MP502C

MP23C

White valox ® end-line insulator for wire aerials
Length: 135 mm
Insulation: 63 kV

MP21C FEED THROUGH

White valox ® end-line insulator for wire aerials
Length: 120 mm
Insulation: 100 kV

MP24C

White valox ® end-line insulator for wire aerials
Length: 210 mm
Insulation: 100 kV

MP46C RAIL FAST BASE

Chrome-plated brass base for 1" diameter rails,
Stainless steel 18/10(A4) hardware,
14 threads per inch. coupling part, pass cable hole

MP197C DECK BASE

Stainless steel tubular support, for GPS Mount 1" -14

MP16C CHROME PLATED BRASS BASE

4 way, self supporting, stainless steel hardware(A4),
1" diameter male 14 threads.

MP618C RAIL BRACKET

Stainless steel Bracket 1" 14 threads male
For GPS mounting

MP055C BRACKET

Stainless steel Bracket 1"14 threads male
for GPS mounting

MP255C same as code 055 but stand off 5"

MP505C STAND OFF BRACKET

Stainless steel Bracket 1" gas standard
Mount on pipe from 1" G up to 2"1/2 G
Stainless steel

MP504C PIPE MOUNT

S/S tube 1" Gas standard
To weld on structure
Stainless steel

MP502C ADAPTER MOUNT

Adapter 1" gas standard to 1"-14 female
Chrome plated brass

Quick delivery

Strategically located warehouses





www.aepmarineparts.com



Marine Parts

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