

Port configuration

Port	Function	
1	Receiving / Transmitting	Maritime VHF 155-163MHz
2	Antenna	Antenna connection
3	Receiving	AM/FM Radio, SSB receiver, Weatherfax
4	Receiving	0.15 – 110MHz
5	Receiving	Navtex or DGPS 150-600kHz
	Power	DC 9.6 – 26V, approx. 50mA
All ports: 50 Ω		

Application:

The MAS1 is a multifunction active antenna system, which allow simultaneous transmitting and multi band receiving through a single cable and antenna.

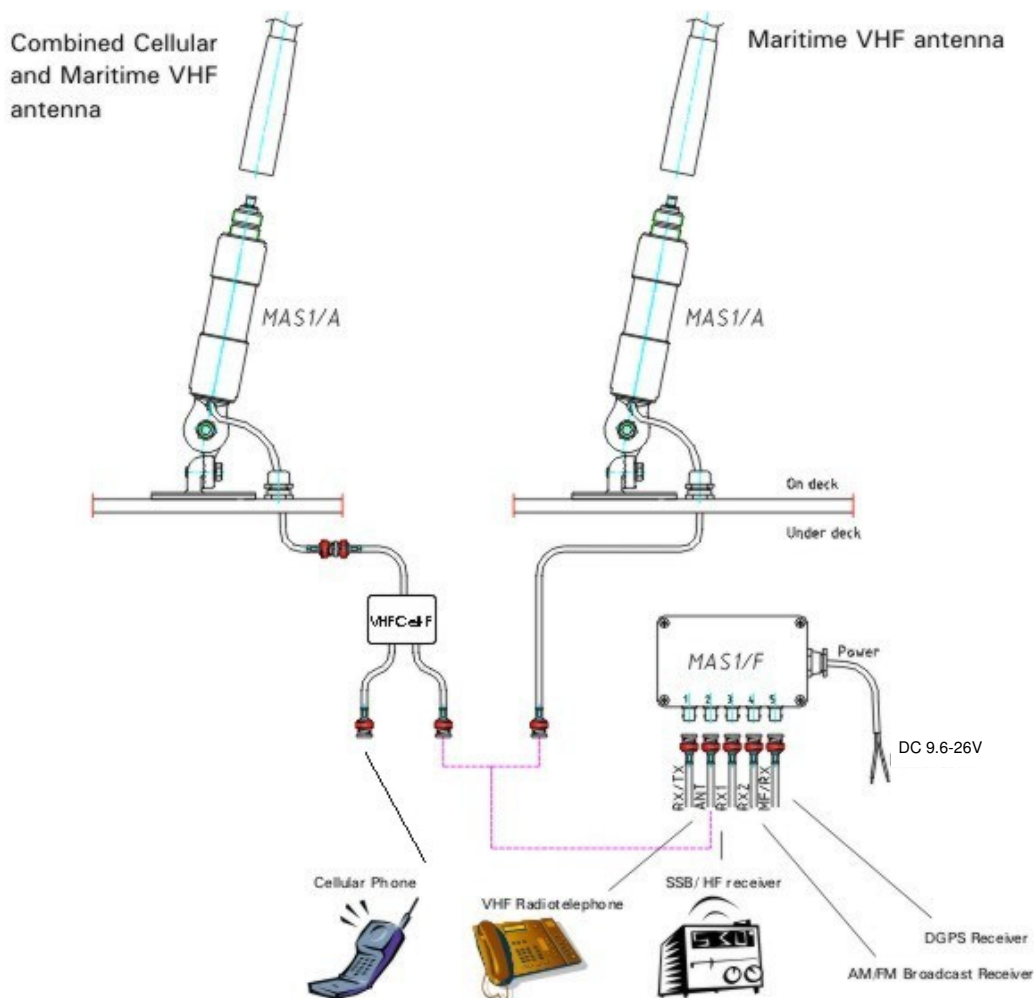
A regular COMROD VHF or combined VHF/cellular antenna is mounted on a wideband preamplifier (MAS1/A-BI) that combines all frequency bands into one output port such that only ONE antenna cable is required. In the other end of the cable is a filter unit (MAS1/F) connected. This unit divides the signals into its desired connection port.

The power to the preamplifier is feed through the coaxial cable from the filter unit.

It is a high quality antenna system with a durable construction and a beautiful finish for installation on all kinds of vessels.

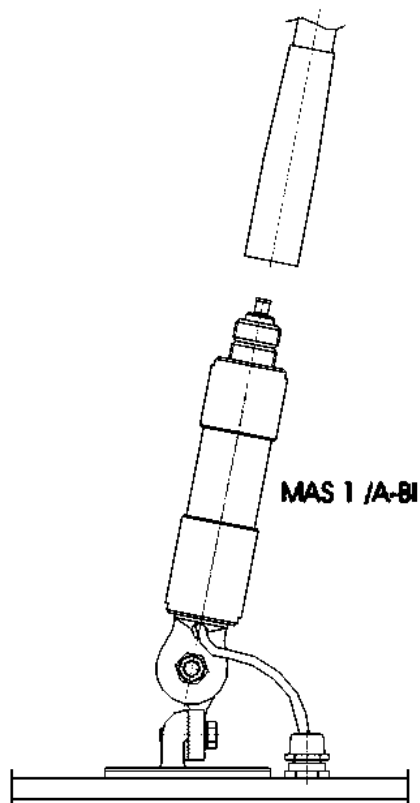
Possible installations:

With or without cellular possibilities



Electrical specifications:

Frequency range	See port configuration matrix
Lightning protection	Gas discharge tube for ESD protection
Current consumption	Approx. 50ma
Supply voltage	9.6 – 26V
Connectors	BNC female on filter unit Integrated BNC male/female on antenna unit
Insertion loss maritime VHF	< 1dB, outdoor unit < 0.5dB, indoor unit



Mechanical specifications, outdoor unit:

Diameter	43mm
Height	Builds 140mm to total antenna height
Weight	0.6 kg
Wind rating	55 m/s = 125 mph with up to 4' antenna
Maximum antenna length	2.5m (8'), 1.25m (4') recommended.
Finish	Polyurethane lacquer, white Stainless steel
Temperature range	-55 °C, +71 °C; -67 °F, +160°F

Mounting:

The MAS1/A-BI is fitted with UNS1" x14 female ferrules. Can be used with all standard mounting accessories.

Integrated BNC female coaxial connector.

All BI versions come with a tool to mount the BNC male coaxial connector inside the stainless steel ferrule.

Installation solutions with:

Combined cellular and maritime VHF:

Name	Art. Nr.:	Consists of:
MAS IS 1	014110	AC11BI4-US /HF CEL F/MAS1-A/ MAS1-F
MAS IS 2	014120	AC11BI4 /VHF CEL F/MAS1-A/ MAS1-F

Maritime VHF:

MAS IS 3	014130	AV51BI/MASF/ MAS1-F
MAS IS 4	014140	AV53BI3/MAS1-A/ MAS1-F