

COM100-NUM Pictured

FEATURES

- **Industry Grade Dual Channel AIS Receiver (OEM)**
- **Space saving, lightweight design**
- **Ideal for remote mobile monitoring of sea traffic**
- **Suitable for integrating into customer equipment**
- **Provides NMEA 0183 AIS vessel data**
- **NMEA 0183 output screw terminals**
- **Optional Ethernet and USB ports for local monitoring (FTDI VCP emulation)**

RECEIVERS

COM100 LIGHTWEIGHT OEM AIS RECEIVER WITH NMEA

SKU: 001-1050

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OVERVIEW

The COM100 OEM AIS Receiver is a dual channel parallel synthesised AIS receiver in a small footprint PCB module suitable for integration into customer equipment. It provides NMEA 0183 serial data output with optional USB and Ethernet connection options. This lightweight unit is ideal for deployment in remote situations, where space, weight and reliability are critical factors.

The COM100 OEM AIS Receiver has been specifically designed for use by system integrators in the professional market and uses Comar's well proven high sensitivity dual channel parallel receiver.

APPLICATIONS

- Managing sea traffic in remote locations
- Locating and tracking ships in remote areas
- Monitoring fishing zones
- Assisting in Search and Rescue operations

RELATED PRODUCTS

AV20 - 180mm Lightweight AIS Antenna

AV30 - 310mm Lightweight AIS Antenna

SPECIFICATIONS

PHYSICAL	
Weight:	<70 g (PCB only)
Dimensions:	L 75mm W 76mm H 28mm max (PCB only)
Mounting:	4 mounting holes Ø 3.5mm in base PCB
Connections:	Option: RJ45 Ethernet 10 / 100 Base-T Option: USB-Mini socket BNC Coaxial to antenna

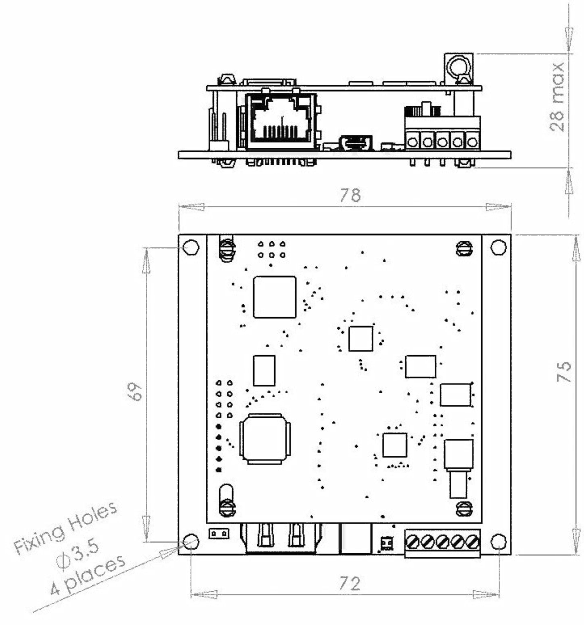
ELECTRICAL	
Power Supply:	12 V dc (9 - 18 V dc); 250 mA @ 12 V dc; Approx. 500 mA @ 5 V dc via USB connection
Antenna Impedance:	50 Ω

OPERATIONAL	
Frequency:	Channel A 161.975 MHz Channel B 162.025 MHz
Sensitivity:	> -112 dBm @ 20% MER
Channel Spacing:	25 kHz
Demodulation:	GMSK
Data Rate:	38400 Baud
Network Protocols:	TCP/IP, UDP/IP, ARP, ICMP, TFTP, TELNET, DHCP, BOOTP, HTTP and AUTOIP
Data Output:	NMEA 0183; 38400 Baud; VDM output message
Data Types Received:	Name of Vessel; MMSI Number; Position; Speed (SOG); Course (COG); Type of Vessel; Call Sign; Heading; Rate of Turn; Navigational Status; Vessel Dimensions; Destination
Display:	3 Indicator LEDs (Red=Ch A; Red=Ch B; Green=Power)

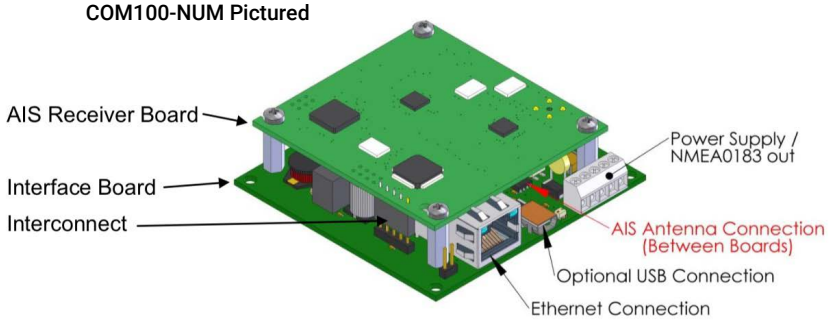
ENVIRONMENTAL	
IP Rating:	n/a
Operating temp:	-15°C to +55°C
Compass:	Safe Distance 50 cm

ADDITIONAL	
Supplied:	COM100 PCB receiver
Required:	50Ω antenna

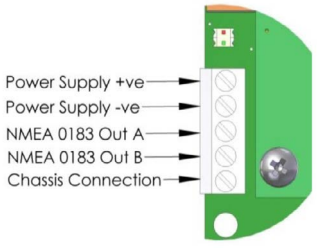
COM100 Series Variants			
Model:	**Ethernet:**	**USB:**	**Serial NMEA:**
COM100-M	No	No	Yes
COM100-NM	Yes	No	Yes
COM100-UM	No	Yes	Yes
COM100-NUM	Yes	Yes	Yes



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Terminal Block Connections:



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ANTENNAS & AERIALS

AV20 QUARTER-WAVE HELICAL AIS ANTENNA

SKU: 001-1054

View Online ›

FEATURES

- **Omnidirectional**
- **Ideal for UAVs**
- **Designed for AIS**
- **Rugged rubber overmould construction**
- **Lightweight with low windage**
- **Supplied with bracket and cable**
- **Watertight**

OVERVIEW

The AV20 is a lightweight, compact 1/4 wave AIS antenna with a rubber coated helical whip section, resulting in low windage and ideal for use with the COM100 series AIS receiver.

The antenna has a skirt covering the BNC connector at the base for full weather protection.

Supplied with right angle bracket and 3m patch lead.

APPLICATIONS

- Ideal for use with the COM100 lightweight AIS receiver

RELATED PRODUCTS

AV30 - Ground Plane Independent Reduced Height AIS Antenna

SPECIFICATIONS

PHYSICAL	
Weight:	87g
Dimensions:	L 180mm
Mounting:	Right-angle Bracket
Construction:	Rubber Overmoulded Helical whip

ELECTRICAL	
Antenna Impedance:	50 Ω
Cable:	3m RG58 patch lead included
Connections:	BNC Plug terminated patch lead
Power Rating:	50W

OPERATIONAL	
Frequency range:	AIS Band 161.5 optimised
Polar Radiation:	Omni Directional
Polarisation:	Vertical
Gain:	Unity
VSWR:	<1.5:1 at resonance
Bandwidth:	+/- 3% @ 2:1

ADDITIONAL	
Supplied:	Right-angle Bracket
Supplied:	3m RG58 patch lead with BNC plug

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