comar SYSTEMS

COM100NU 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**
- **Rugged aluminium alloy housing - optional**
- **Optional Ethernet and USB ports for local monitoring (FTDI VCP emulation)**

RECEIVERS

COM100 LIGHTWEIGHT OEM AIS RECEIVER

SKU: 001-1050

View Online ›

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 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

PRODUCT OPTIONS

COM100N - Includes Network Connectivity
COM100U - Includes USB Connectivity
COM100NU - Includes USB & Network Connectivity

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 SMB 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

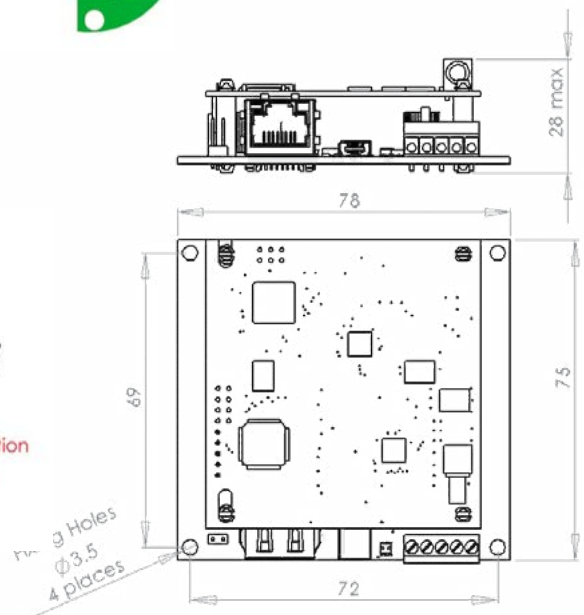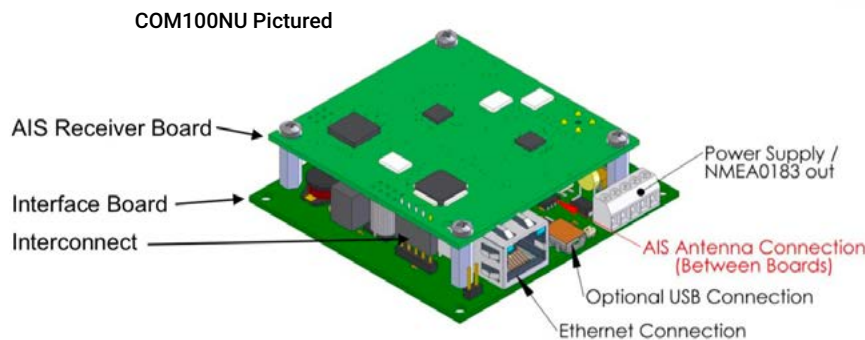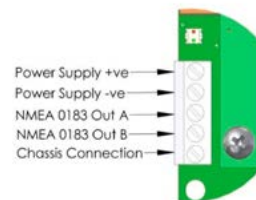|	
Frequency	Channel A 161.975 MHz Channel B 162.025 MHz
Sensitivity:	> -112 dBm @ 20% MER
Channel Spacing:	25 kHz
Demodulation:	GMSK
Data Rate:	38400 Baud
Network Protocols:	TCP/IP, UDP/IP, ARP, ICMP, TFTP, TELNET, DHCP, BOOTP, HTTP and AUTOIP
Data Output:	NMEA 0183; 38,400 Baud; VDM output message GPS: GGA, GSA, GSV, RMC
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

APPROVALS

Conforms with:	IEC 61162-1; IEC 61993-2; IEC 60945; EN 61000-6-1 & 2; FCC part 15

ADDITIONAL

Supplied:	COM100 PCB receiver
Required:	50Ω antenna
Option:	Aluminium alloy housing (no end plates)
Option:	Alternate antenna connection position

Note 1: It may be necessary to separate the two boards to attach the antenna cable. This may be achieved by removing the 4x M3 screws from the top of the receiver board and separating the boards. Care should be taken to insert the interconnect correctly when re assembling. An SMB to BNC adaptor cable is available from Comar Systems if required.
Note 2: Please see: www.ftdichip.com/FTDrivers.htm for USB Drivers
N**ote 3:** Please see https://www.lantronix.com/products/xport/ for X-Port installation information.

Power Supply +ve
Power Supply -ve
NMEA 0183 Out A
NMEA 0183 Out B
Chassis Connection

28 max
78

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AIS Receiver Board
Interface Board
Interconnect
Power Supply / NMEA0183 out
AIS Antenna Connection (Between Boards)
Optional USB Connection
Ethernet Connection

69
75
72
Mounting Holes Ø3.5 4 places