

Class B AIS Transceiver 78950i



Power Supply	12V, 24V
Power Consumption	<3W
Peak current	3A
Load Equivalency Number	1 LEN
RF SPECIFICATIONS	
DSC Receiver	Implemented by time sharing with one TDMA receiver
Receiver 1 band	156.025 MHz to 162.025 MHz (in 25KHz steps)
Receiver 2 band	156.025 MHz to 162.025 MHz (in 25KHz steps)
Transmitter band	156.025 MHz to 162.025 MHz (in 25KHz steps)
Transmitter specification	To meet IEC 62287-2 relevant sections
Receiver specification	To meet IEC 62287-2 relevant sections
Transceiver specification	To meet IEC 62287-2 relevant sections
GPS Receiver	
GPS receiver	u-blox MAX-M8W
Receiving channels	72 channels
Acquisition time	cold start 26s
Positional source	GPS & GLONASS
ENVIRONMENT	
Operating temperature	-40°C to +65°C
Storage temperature	-40°C to +75°C
Waterproof	IPX6 and IPX7
Humidity	Up to 93% @ 40°C
EXTERNAL CONNECTIONS	
VHF antenna connector type	SO-239 co-axial
VHF radio connector type	SO-239 co-axial
GNSS antenna connector	50Ω TNC co-axial
NMEA2000	DeviceNet male
USB	Micro-B
External interface isolation	NMEA0183 and NMEA 2000 interfaces to incorporate galvanic isolation from power supply as required by the relevant interface specification
NMEA0183 interface 1 (MFD connection)	NMEA 0183 HS (IEC 61162-1) compliant, bi-directional, RS422 levels. 4 wire interface (differential signalling). Configurable baud rate. Input to MFD from AIS
NMEA0183 interface 2 (NMEA0183 instrument connection)	NMEA 0183 (IEC 61162-1) compliant, bi-directional, RS422 levels. 4 wire interface (differential signalling). 4 wire interface (differential signalling) Configurable baud rate
USB interface (PC connection)	Protocol NMEA 0183 HS (IEC 61162-1) compliant, bi-directional USB port, 38.4 kBaud

Applicable Standards
IEC 62287-22017
IEC 609452002
IEC 611082003; EN 301843-1:2004
EN 60950-1; ITU-R M.1371-5