

SPECIFICATIONS

GENERAL		
Frequency coverage	161. MHz and 162.025 MHz	
Type of emission	16K0GXW (GMSK)	
Antenna impedance	50 Ω (unbalanced)	
Intermediate frequency	AIS 1: 1st: 21.700 MHz, 2nd: 450 kHz AIS 2: 1st: 30.150 MHz, 2nd: 450 kHz	
Operating temperature range	-20°C to +60°C, -4°F to +140°F	
Power supply requirement	Negative ground: 12 V or 24 V DC nominal (9.6 to 31.2 V)	
Current drain (at 12 V DC)	TX: 1.5 A, RX: 0.7 A	
Dimensions (approximate)	166.2 (W) × 110 (H) × 80 (D) mm, (Projections not included) 6.5 (W) × 4.3 (H) × 3.1 (D) inch	
Weight (approximate)	700 g, 1.5 lb	
TRANSMITTER		
Output power	2 W	
Modulation	GMSK	
Conducted spurious emission	Less than -36 dBm (9 kHz-1 GHz) Less than -30 dBm (1 GHz-4 GHz)	
RECEIVER (AIS)		
Sensitivity	Less than -110 dBm	
Adjacent channel selectivity	More than -31 dBm	
Spurious response	More than -31 dBm	
Intermodulation	More than -36 dBm	
Conducted spurious emission	Less than -57 dBm (9 kHz-1 GHz) Less than -47 dBm (1 GHz-4 GHz)	
Blocking	More than -15 dBm (±0.5 MHz-±5 MHz) More than -23 dBm (±5 MHz-±10 MHz)	
Co-channel	More than -111 dBm	
RECEIVER (DSC)		
Frequency coverage	156.525 MHz	
Type of emission	16K0G2B	
Sensitivity	Less than -110 dBm	
Adjacent channel selectivity	More than 70 dB	
Spurious response	More than -34 dBm	
Intermodulation	More than -39 dBm	
Blocking	More than -20 dBm	
GPS RECEIVER		
Received frequency	1575.42 MHz	
Acquisition	72 ch (maximum)	
Satellites	GPS, GLONASS	
Differential satellites	WAAS, EGNOS, MSAS, GAGAN	
Dimensions (approximate)	φ96 × 225 (H) mm, φ3.8 × 8.9 (H) inch	
Weight (approximate)	700 g, 1.5 lb (including cable and mounting bracket)	
Cable length (approximate)	10 m, 32.8 ft	
DATA INTERFACE		
USB	VDM, VDO, ACA, ACS, ALR, TXT, GGA, GNS, GLL, GSA, GSV, RMC, VTG	
NMEA 2000	1 port	
NMEA 0183	Port 1	4800 bps IN/OUT, DSC, RMC, GGA, VTG, GSA, GSV, GBS, DTM, GNS, GLL
	Port 2	38400 bps OUT, VDM, VDO, ACA, ACS, ALR, TXT, GGA, GNS, GLL, RMC, VTG
	Port 3	4800 bps IN, GGA, GNS, GLL, RMC, VTG, GBS, DTM

All stated specifications are subject to change without notice or obligation.

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OPTIONS



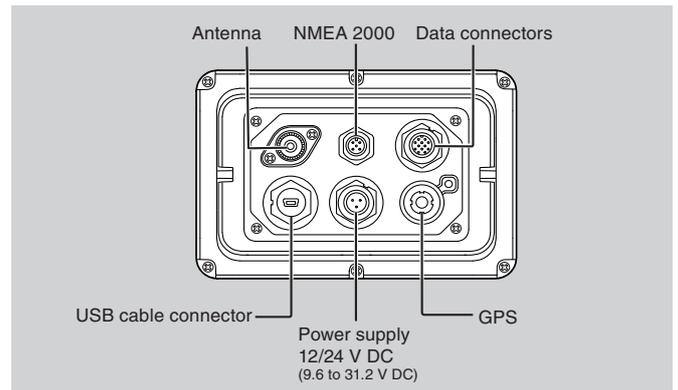
For flush-mounting the MA-510TR to a flat surface, such as a control panel.



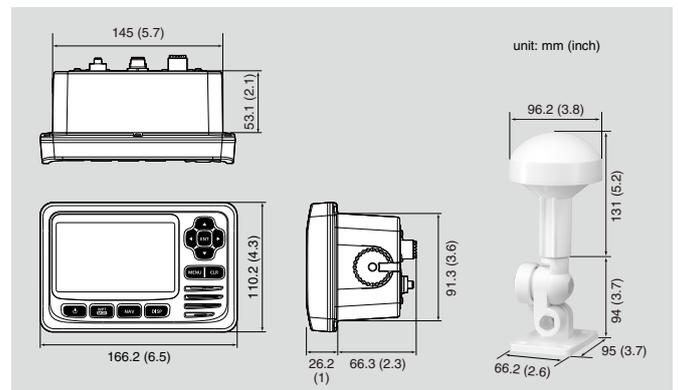
For flush-mounting the MA-510TR to a flat surface, such as a control panel.

CS-MA510TR PROGRAMMING SOFTWARE

REAR PANEL VIEW



DIMENSIONS



- Supplied accessories:**
- GPS antenna
 - DC power cable
 - Mounting bracket kit

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