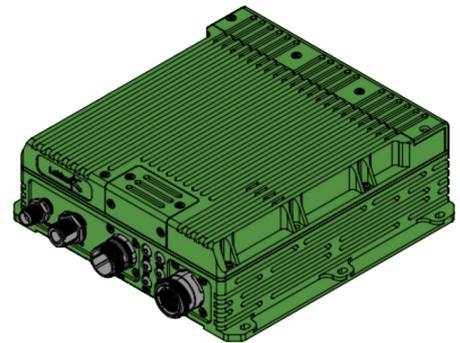


AIS Transponder

AIS Transponder is a VHF Narrow channel Communication Radio with SOTDMA and GMSK Waveform and Software, advanced Baseband and RF Hardware.

AIS (Automatic Identification System) Transponder is a Narrow channel VHF Radio with collision avoidance protocols to manage the maritime and air traffic. An AIS transponder determines its own position, speed and course using a built in GPS receiver. This information is combined with other important navigation information and automatically communicated between AIS equipped vehicles any user interaction. Dual Channel AIS Transponder is being developed on the SDR platform.



AIS - Automatic Identification System

Appication

- Maritime Industry Real-time vessel tracking and provide information on a vessel's position, course, speed, and other operational data.
- Facilitate communication between vessels, as well as between a vessel and shore-based systems.
- Safe navigation, avoiding collisions at sea and monitoring the movement of vessels in congested waters.

System Specifications	
Operating Frequency	155 MHz to 163 MHz
Channel Bandwidth	25 KHz
Number of Channels	Transmitter – 1 No Receiver – 3 Nos (2 AIS and 1 DSC)
RF Output Power	1W and 12.5W Modes
Channel Spacing	25 KHz
Waveforms	SOTDMA
Modulation	GMSK (AIS) / FSK (DSC)
Data Rate	9600 bps
Rx Sensitivity	Better than -107 dBm
TX to Rx Turnaround Time	< 1ms
Channel Selection Time	< 26 ms
Positioning	Onboard GPS Receiver

Physical Specifications	
Power Input	28V DC Input
Enclosure	Aluminium alloy, IP65 Grade Environmental sealing Housing
Connectors	38999 series circular connector interfaces
Mounting Option	Mounting provision for Vehicular and pole
Environmental	MIL STD 810 G compliance for Vibration, shock, and thermal stress

For further information or a demonstration, please send a request to business@lekhawireless.com.
For details on other products please visit www.lekhawireless.com.

