Choosing the right AIS receiver...

Quark-elec's AIS receivers.

Features		A021	A022	A023	A024/026	A027	A028	A051T
								
Description	**Function**	Entry level AIS Single channel auto-hopping USB dongle	Compact portable dual channel AIS reciever **Outputs** to USB	Compact entry level WiFi AIS receiver Single channel auto-hopping **Outputs** WiFi and USB	Dual channel AIS receiver (+GPS in A026) **Combines** AIS (+GPS) and NMEA 0183 input **Outputs** WiFi, USB and NMEA 0183	Dual channel AIS+GPS receiver, with SeaTalk™ to NMEA converter **Combines** AIS, GPS and SeaTalk™ input **Outputs** WiFi, USB and NMEA 0183	NMEA 2000 AIS receiver + GPS **Outputs** USB, NMEA 0183 and NMEA 2000	WiFi AIS Transponder Class B **Outputs** WiFi, USB and 2 x NMEA 0183
INPUT connections	**AIS dual channel**		✓		✓	✓	✓	✓
	AIS channel hopping. (a single channel receiver that 'hops' between two AIS channels)[1]	✓		✓				
	AIS sensitivity (@30% PER)	-104dBm	-105dBm	-104dBm	-105dBm	-104dBm	-105dBm	-109Bm
	Typical AIS range[2]	12nm	12nm	12nm	22nm	20nm	20nm	40nm
	AIS antenna connection	SMA (+BNC adaptor)	SMA (+BNC adaptor)	BNC	BNC	BNC	BNC	SO239
	NMEA 0183 input				✓			
	SeaTalk™ bus input (SeaTalk converting)					✓		
	GPS module integrated (requires GPS antenna)				✓ SMA (A026 only)	✓ SMA	✓ SMA	✓ TNC
Power source	**Powered through**	USB	USB	USB	USB	SeaTalk™ bus (12V)	N2K bus (12V)	12V - 35V
Multiplexing	**Multiplexing**				✓(A024) AIS+NMEA (A026) AIS+GPS+NMEA	✓ AIS+GPS+SeaTalk	✓ AIS and GPS	
OUTPUT connections	**USB (NMEA 0183 format) output**	✓	✓	✓	✓	✓	✓	✓
	NMEA 0183 output (RS422)				✓	✓	✓	✓ x2 RS422 + RS232
	NMEA 2000 network						✓	
WiFi	**Ad-hoc and Station modes**			✓	✓	✓		✓
	Option to disable WiFi							✓
Configuration	**Configuration through USB port. Configuration requires Windows PC**	✓	not required	✓	✓	✓	not required	✓
Compatible devices and software	**Windows/Mac/Linux through USB**	✓	✓	✓	✓	✓	✓	✓
	Chart Plotters				✓	✓	✓	✓
	Android/iOS	USB OTG	USB OTG	WiFi	WiFi	WiFi		WiFi

[1] Manually adjustable hopping interval rates (0.25 seconds, 1 second, 30 seconds and auto-hopping) Channel hopping will increase the number of messages received, in comparison with single channel receivers. However, part of some multi-AIS messages may be lost, due to the hopping nature of the product. If both the quantity and the completeness of AIS messages is important to you, we recommend the dual channel receivers.

[2] Mounted on a masthead, 20 feet above sea level.

* SeaTalk™ is a registered trademark of Raymarine.