



**YOUR AIS EXPERTS**

call us...

**1-206-299-2217**

**AMEC WideLink**

**B600/B600W Update**

New firmware versions for the AMEC B600 and B600W are now available and outlined below. There are a number of new features and fixes. One of the most important new features is the ability for the B600 to multiplex inbound NMEA 0183 and NMEA 2000 data (e.g., wind, depth, heading, temperature) and output all the data along with its own AIS and GPS data on the USB and Wi-Fi (B600W) connections. This combined data-stream can be used by PC, Mac and mobile marine navigation apps. See the next page for the list of translated NMEA messages.

**What's New in B600 V1.1.5.04 Firmware (June 2018):**

- Added NMEA Multiplexing functions (Disabled by default. The new AIS Configuration program must be used to enable this feature.)
- NMEA 2000 Improvements:
  - NMEA 2000 source ID 0 - 31
  - Fixed NMEA 2000 PGN 129794 (Class A static data and voyage data) ETA year
  - Fixed NMEA 2000 PGN 129041 (AtoN report) Incorrect Name
  - Revised NMEA 2000 PGN 126996 (Product information) certification level to 2
  - Added NMEA 2000 system instance; allow user to add description.
  - When there are multiple heading sensors on NMEA 2000 bus, B600 will take only one heading source with the lowest "source address" (assuming it has higher priority), and other heading value (if any) from other heading source will not be taken.
  - Fixed PGN 60945 (ISO Address Claim) unable to response when requested by PGN 59904 (ISO Request).
  - Fixed GSV conversion error.
- GPS:
  - GPS antenna status alert.
  - GNSS satellite signal is now user selectable. Now, the user can either choose to received GPS Only, GLONASS Only or GPS with GLONASS.
- Other Improvements:
  - Improved overall system stability.
  - Improved SD Card file management.
  - Modified NMEA 0183 forward function. The external GPS messages are no longer forwarded.

**What's New in B600 V1.1.5.05 Firmware (July 2018):**

- All of above
- Fixed NMEA 2000 conversion to NMEA 0183 HDG translation error.

The new release can be downloaded from: [http://www.alltekmarine.com/products\\_detail.php?bgid=3&gid=53](http://www.alltekmarine.com/products_detail.php?bgid=3&gid=53)

If you have any questions, feel free to contact our support department via phone (1-206-299-2217) or email ([support@milltechmarine.com](mailto:support@milltechmarine.com)).

Milltech Marine Inc.

PO Box 1074, Port Orchard, WA 98366

Tel. +1-206-299-2217 \*\*\* Email: [info@milltechmarine.com](mailto:info@milltechmarine.com) \*\*\* [www.milltechmarine.com](http://www.milltechmarine.com)

Copyright © 2018, Milltech Marine Inc.

## NMEA Translations and Multiplexing for the B600/B600W

PGN	Description	Receive	Transmit	NMEA0183 translation output	NMEA0183 translation input
59392	ISO Acknowledgment		✓		
59904	ISO Request	✓			
60928	ISO Address Claim	✓	✓		
126464	PGN List - PGNs group function		✓		
126993	Heartbeat		✓		
126996	Product Information		✓		
126998	Configuration Information		✓		
127250	Vessel Heading	✓	✓	HDG	HDT, HDG
127258	Magnetic Variation	✓		HDG	
128259	Speed, Water Referenced	✓		VHW	
128267	Water Depth	✓		DPT	
128275	Distance Log	✓		VLW	
129025	Position, Rapid Update		✓		
129026	COG & SOG, Rapid Update		✓		
129029	GNSS Position Data		✓		
129038	AIS Class A Position Report		✓		
129039	AIS Class B Position Report		✓		
129040	AIS Class B Extended Position Report		✓		
129041	AIS Aids to Navigation (AtoN) Report		✓		
129283	Cross Track Error	✓	✓	XTE	APB, RMB, XTE
129284	Navigation Data	✓	✓	APB, BOD, RMB	APB, BOD, BWW, RMB
129285	Navigation - Route/WP information	✓	✓	WPL	RMB
129539	GNSS DOPs		✓		
129540	GNSS Sats in View		✓		
129792	AIS DGNSS Broadcast Binary Message		✓		
129793	AIS UTC and Date Report		✓		
129794	AIS Class A Static and Voyage Related Data		✓		
129795	AIS Addressed Binary Message		✓		
129796	AIS Acknowledge		✓		
129797	AIS Binary Broadcast Message		✓		
129798	AIS SAR Aircraft Position Report		✓		
129800	AIS UTC/Date Inquiry		✓		
129801	AIS Addressed Safety Related Message		✓		
129802	AIS Safety Related Broadcast Message		✓		
129803	AIS Interrogation		✓		
129804	AIS Assignment Mode Command		✓		
129805	AIS Data Link Management Message		✓		
129806	AIS Channel Management		✓		
129807	AIS Group Assignment		✓		
129809	AIS Class B "CS" Static Data Report, Part A		✓		
129810	AIS Class B "CS" Static Data Report, Part B		✓		
129811	AIS Single Slot Binary Message		✓		
129812	AIS Multi Slot Binary Message		✓		
129813	AIS Long-Range Broadcast Message		✓		
130306	Wind Data	✓		MWD, MWV	
130310	Environmental Parameters	✓		MTW	
130311	Environmental Parameters	✓		MTW	
130312	Temperature	✓		MTW	
130314	Actual Pressure	✓		XDR, MDA	
130316	Temperature, Extended Range	✓		MTW	

Milltech Marine Inc.

PO Box 1074, Port Orchard, WA 98366

Tel. +1-206-299-2217 \*\*\* Email: info@milltechmarine.com \*\*\* www.milltechmarine.com

Copyright © 2018, Milltech Marine Inc.