

Date: 08 July 2011

To whom it may concern

Subject: ASH-660 antenna replacing legacy NAP001 and L1 GPS Marine IV Antennae

In September 2010, Ashtech has introduced the new ASH111660 (p/n 802133) geodetic antenna which is a single frequency L1 GPS+GLONASS antenna.

ASH-660 provides high quality raw data observations and advanced L1 DGPS or RTK solutions when combined with the Ashtech receivers.

ASH11660 antenna ideally replaces legacy NAP001 antenna (p/n P076311B) which is EOM\* and L1 GPS Marine IV Antenna (p/n 103661-S) which is going to be discontinued (supply is limited to stock on hand).

The mounting part for ASH-660 and Marine IV antennae are the same – 5/8” adaptor – and ASH-660 can be used in the same environment it was for Marine IV. Thus ASH-660 is a natural and enhanced replacement for all previous NAP001 and Marine IV use cases.

The ASH-660 antenna has been calibrated by USA’s National Geodetic Survey and its phase center calibration pattern is published on the NGS webpage (under the following reference: ASH111660).

Best Regards,

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\*EOM: End of Manufacturing