

NAV6Aplus AND NAV6hub

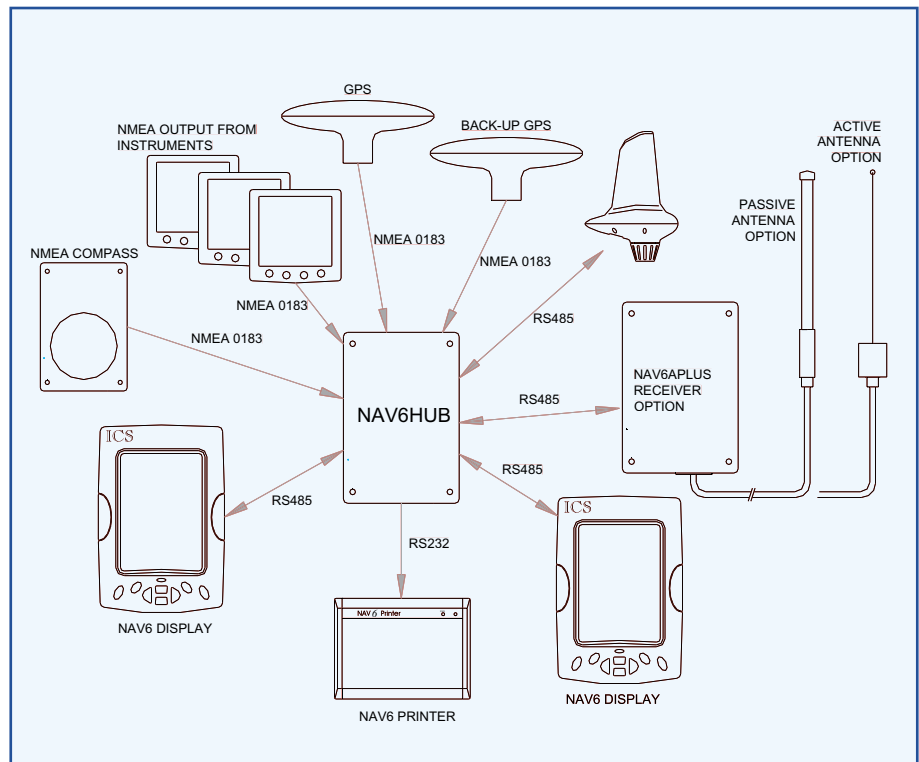


A breakthrough in NAVTEX and Instrument Repeater Flexibility

The NAV6Aplus and NAV6hub expand the capabilities of the ICS NAV6 NAVTEX system and offer a simple but flexible approach to installation.

NAV6 systems consisting of more than a single display and sensor require a NAV6hub.

A single NAV6hub unit supports up to four separate system units. These can be daisy-chained to allow even more flexibility.



TYPICAL EXPANDED NAV6 INTERCONNECTION DIAGRAM

NAV6hub

Where multiple NAV6 displays are required, the NAV6hub provides an easy way of connecting all system elements together. The NAV6hub allows any combination of up to four NAV6 displays or sensors to be connected to each other in order to share NAVTEX messages.

The NAV6hub provides a buffered NMEA 0183 input and routing to connect an NMEA source to all displays in the system. In addition, the NAV6hub can be fitted with an NMEA Data Combiner module to allow up to 4 NMEA 0183 inputs to be merged together into a single NMEA 0183 data stream. This data stream is connected to the various displays attached to the NAV6hub



and is also available to other external equipment. Multiple sources of GPS data, plotters, radars, instruments etc can all talk to a single NAV6 display or to a network of NAV6 products.

NAV6Aplus

On a new vessel, it may be considered simpler to use a central multi-function antenna for several radios on board, or to use insulated rigging for NAVTEX reception. Both of these options are possible with the NAV6Aplus.



The NAV6Aplus receiver replaces the standard NAV6plus NAVTEX sensor. It is designed for below decks inside mounting with remote antenna connection.

NAV6Aplus is compatible with many existing 50ohm NAVTEX antennas or wide band active whip antennas. Alternatively, an insulated wire may be used as a simple but effective NAVTEX antenna.

NAV6Aplus AND NAV6hub Technical Specifications



NAV6hub

It is not uncommon to have more than one source of NMEA data. For instance a GPS may be transmitting position-related data on one NMEA source and an instrument system may output the boat's instrument data on another. NMEA outputs cannot be just connected together and a suitable 'NMEA combiner' is required. ICS recommend that you purchase the NMEA Data Combiner option for installation within the NAV6hub.

The Combiner has four pairs of NMEA input connections. These are prioritised with NMEA.1 the highest priority. These means that if an NMEA sentence (say RMC) is presented on both the NMEA.1 and NMEA.2 connectors, then the RMC sentence from NMEA.1 will be used and the sentence from NMEA.2 will be discarded.

NAV6hub specifications

Power Consumption

20 mA @12V

Physical

Height 180mm, Width 122mm, Depth 36mm

Weight 300g

Mounting

Bulkhead mounting via two self-tapping screws (supplied)

Cable exits from slot in base of unit

Connection

All connections made by spring terminal (cable size 26 to 14 awg). Connect to displays and sensors by the cable supplied with those items. Connect to ancillary equipment by the cable supplied with that equipment

Environmental

Not for outside use.

Unit must be mounted below decks in a suitable dry location

Order code:

919.00 NAV6hub

919.01 NAV6hub with NMEA combiner option fitted

Options:

050.07 NMEA 0183 data combiner PCB only

6020.19 10m display cable extension kit

6020.18 30m display cable extension kit

Available from:

NAV6Aplus

Remote antenna types may include the following:

- ▶ ANT4/w compact passive antenna with cable
- ▶ NAV-ANT/w commercial passive antenna
- ▶ Low profile active whip antenna
- ▶ A centralised, wide frequency active antenna system
- ▶ An insulated wire antenna or long whip

If an insulated back stay or shroud is used as a wire antenna, it is recommended that the NAV6Aplus is located within 1m of the antenna feed point.

NAV6Aplus specifications

Power Requirements

70mA at 12V (supplied by NAV6 display or NAV6hub).

Antenna input

1. 50ohm, range 490 - 518 kHz

12Vdc to feed to power an active antenna is selectable at installation.

2. Hi impedance wide range

Supports connection of longer than 2m of insulated wire or unmatched whip antenna.

Physical Dimensions

Height 180mm, Width 122mm, Depth 36mm

Weight 300g

Mounting

Bulkhead mounting via two self-tapping screws (supplied)

Connection

All connections made by 2 part screw terminal

Environmental

Not for outside use

Unit must be mounted below decks in a suitable dry location

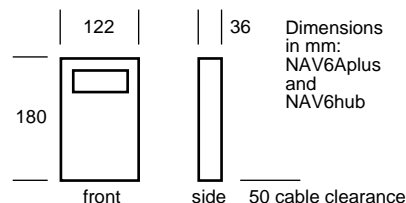
Order code:

920.00 NAV6Aplus with NAV6plus display

Options:

904.02 ANT/w 490 & 518kHz compact passive antenna with 10m cable.

905.04 Low profile stainless steel active whip antenna with 20m cable.



ICS Electronics has a policy of continuous product improvement and reserve the right to vary in detail from the specifications contained in this brochure.

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