Datasheet
Generic Communications Hub (GCH)

The Generic Communications Hub (GCH) is a 1U interface box which can be used with multiple pieces of Sonardyne equipment.

Designed to be rack or desk mounted, the GCH provides a network port server, stable 24 V power supply and the ability to easily interface serial communications to a connected instrument.

LEDs on the front of the unit provide feedback for interfacing and to monitor unit communications.

When used alongside a SPRINT-Nav DP system the user has a rack mounted interface through which they can interface an external GNSS or Sound Velocity sensor, alongside having Local Area Network (LAN) connectivity to the SPRINT-Nav DP.

Alongside managing the sensor inputs that may be needed for successful SPRINT-Nav DP operation the user also retains a RS485 connection direct to the SPRINT-Nav DP which will ensure that it can continue outputting and receiving data independent of the vessels LAN.

Key features

- 3 port network switch
- 10/100 fast Ethernet uplink
- RS232/RS485 Moxa virtual serial ports x2
- 24V DC power out
- Separate input/output ports for units RS485
- Pass through trigger ports x2 for input PPS, DVL trigger or output PPS
- Designed for interfacing to vessel racks and server rooms
- Lemo connectors for robust rack mounted communications

Specifications

Feature		Type 8389
Ports and connectors		1x DB9 port connected to Moxa (RS232 default) 1x Lemo port connected to Moxa (RS485 default) 1x Lemo port pass through to connected unit (RS485 Tx) 1x Lemo port pass through to connected unit (RS485 Rx) 2x BNC jack for trigger pass through to connected unit 1x Lemo for connected unit communications 1x Lemo for connected unit power (24 V DC out) 1x IEC socket 115/230 V ac, 1 A, 60/50 Hz
Power supply		Auto-sensing ac input voltage: 115–230 V, 60/50 Hz Maximum current: 1 A
Environmental specifications	Operating	-5 to 40°C (23 to 104°F)
	Storage	-20 to 55°C (-4 to 131°F)
	Relative humidity	20–80% (non-condensing)
	Vibration	Frequency 5 to 13.2 Hz – 1.0 mm peak displacement Frequency 13.2 to 100 Hz – 0.7 g acceleration (DNVGL-CG-0339 class A)
Safety		Complies with EN61010-1
EMC		Complies with immunity and emission requirements of EN60945
Dimensions (length x width x height)		430 x 295 x 44 mm
Weight		3.3 kg