Gemini Hub

Integrate Gemini Profiling Sonar and Auxiliary Sensors

Applications

- Oceanographic surveys
- Bathymetric surveys
- Pipe/Trench surveying

The Tritech Gemini Hub, housed in a robust stainless steel rack mountable chassis is the ideal partner to the Gemini Profiling Sonar allowing the survey data to be accurately timestamped. Allowing the integration of data from multiple sensors and providing a convenient single Ethernet output (to connect to an existing IT infrastructure) the Gemini Hub is an ideal addition to any survey system. Fully compatible with the Tritech Gemini software to allow configuration and easy export of data.

Benefits

- Drive multiple Gemini profilers
- Time stamped data for accurate surveys
- Rack mountable
- Ethernet output

Features

- Ethernet or VDSL input
- Connect multiple sensors
- BNC port for GPS
- Compatible with Gemini software
- Ethernet or VDSL communications

The Tritech Gemini Hub unit has been specifically designed to provide an excellent platform for the integration of Gemini Profiling Sonar data with data from other subsea sensors. Using the Gemini Hub allows quick and easy integration and system building.

Housed in a standard low profile rack mountable chassis the Gemini Hub is ideal for use alongside an existing IT infrastructure and is straightforward to connect through its use of a standard Ethernet output. The use of efficient and low power components throughout also means that overall system power requirements are kept to a minimum and the availability of connection options is maximized.

The Gemini Hub is able to accept two Ethernet Gemini Profilers as standard (VDSL option also available) and also data from up to 8 RS232 sensors, such as attitude, heading or motion sensors. GPS data can be handled through its own dedicated BNC port. There is also the option for powering devices through the communications port using a single cable.

Key Specification	
IP rating	IP21 (ideally indoor use only)
Power Consumption	120W maximum
Supply Voltage	90-264V AC at 47-63Hz
Communication Ports	1 x Gigabit Ethernet (RJ45) 2 x Ethernet or VDSL (Souriau) 8 x Serial RS232 (DE-9) 1 x BNC (for GPS PPS data)

Ethernet Configuration

Port K & L (Souriau UTS71412S)

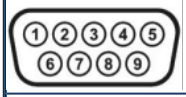
Pin	Function	Pin	Function
A	Ethernet RX+	G	DC Ground
B	Ethernet RX -	H	DC Ground
C	Ethernet TX +	J	not connected
D	DC +	K	not connected
E	DC +	L	not connected
F	Ethernet TX -	M	cable screen

VDSL Configuration

Port K & L (Souriau UTS7147S)

Pin	RS232	Pin	RS232
1	DC Ground	5	VDSL -
2	DC +	6	not connected
3	not connected	7	cable screen
4	VDSL +		

Serial Ports



Port A – H (DE-9, male)

Pin	RS232	Pin	RS232
1	‡	6	‡
2	RX	7	RTS
3	TX	8	CTS
4	‡	9	‡
5	Ground	‡ = connected for handshaking	

Physical specification

Weight	6.50kg / 14.33lbs
Materials	Aluminium and stainless steel
Temperature rating (operating)	5 to 40˚C / 41˚F to 104˚F
Temperature rating (storage)	-20˚C to 50˚C / 4˚F to 122˚F
IP Rating	IP21 (ideally indoor use only)
Dimensions	483mm x 356mm x 88mm
Power Consumption	120W maximum
BNC PPS Voltage	5V TTL
Supply Voltage	90-264V AC at 47-63Hz
Main Fuses	4A, 250V 5x20mm glass antisurge
Communication Ports	1 x Gigabit Ethernet (RJ45) 2 x Ethernet or VDSL (Souriau) 8 x Serial RS232 (DE-9) 1 x BNC (for GPS PPS data)

Specification subject to change in line with Tritech's policy of continual product development

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