Gemini Hub

Integrate Gemini Profiling Sonar and Auxiliary Sensors





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.

Accurate time stamping for a Gemini Profiling Sonar system.

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 heads
- Time stamped data for accurate surveys
- Rack mountable
- Ethernet output
- Easy to integrate into infrastructure

Features

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

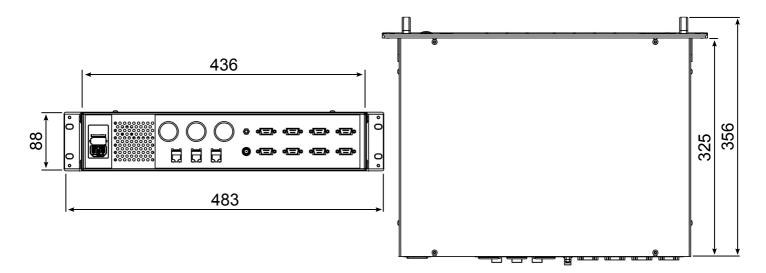
Applications

- Oceanographic surveys
- Bathymetric surveys
- Pipe/Trench surveying



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Not to scale, dimensions in mm.

Physical & Electrical				Ethernet Configuration					
Weight	6.5kg				Port K & L (Souriau UTS71412S)				
Materials	Aluminium and stainless steel		/	150001					
Operating Temperature	5 to 40°C		\langle						
Storage Temperature	-20 to 50°C		\						
IP Rating	IP21 (ideally indoor use only)								
Power Consumption	120W maximum		Pin	Function	Pin	Function			
BNC PPS Voltage	5V TTL		А	Ethernet RX+	G	DC Ground			
Supply Voltage	90-264V AC at 47-63Hz		В	Ethernet RX -	Н	DC Ground			
Main Fuses	4A, 250V 5x20mm glass antisur		С	Ethernet TX +	J	not connected			
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)		D	DC +	К	not connected			
			Е	DC +	L	not connected			
			F	Ethernet TX -	М	cable screen			

Serial Ports				VDSL Configuration					
	Pin	RS232	Pin	RS232		Pin	Function	Pin	Function
$\left(\begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	1	‡	6	‡		1	DC Ground	5	VDSL -
6789 Port A – H (DE-9, male)	2	RX	7	RTS		2	DC +	6	not connected
	3	ТХ	8	CTS					
	4	‡	9	‡		3	not	7	cable
	5	Ground			Port K & L (Souriau		connected		screen
	<i>‡</i> = connected for handshaking			UTS7147S)	4	VDSL +			

Specifications subject to change according to a policy of continual development.

Marketed by:

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