

SeaHub

Surface Interface Unit



Applications

- Connecting a laptop to survey sonars
- Quick and versatile deployment

The SeaHub Surface Interface Unit is a versatile control unit, permitting the user to interface Trittech or third party survey equipment via a USB connection on their own PC or laptop. The SeaHub also features additional USB and serial ports; giving instant access to storage devices, GPS or other ancillary sensors.

Benefits

- Compact rugged design
- Use with any PC
- Drive multiple sonars
- Configurable ports
- Low Power interface unit

Features

- USB 2.0 interface
- DC and AC input
- ARCNET communication
- RS232, RS422 or RS485 communications
- Compatible with Gemini software
- LED status indicators

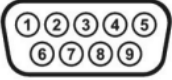
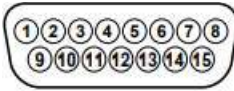
The SeaHub interfaces are software configurable to drive long lines with ARCNET or RS485 as required by the individual sensors and RS232, RS422 or TTL via multiplexer channels. The unit may be mains or DC powered; if mains powered then a DC output is available to power connected equipment. If DC powered the output DC is a fused extension of the input supply.

Front panel diagnostic LEDs show interface ports in use and their status. The SeaHub is fully compatible with Trittech Seaneet Pro software suite and is automatically recognised in Windows if Seaneet Pro is installed. Additionally the unit may be extended using the same Remote Access Terminal (RAT) found on the Surface Control Unit (SCU) to provide an ergonomic set of hardware controls that can operate all of the functionality provided by the Seaneet Pro software. Connection to the RAT is via the front mounted DE-9 port. Head connections can be made via an AIF compatible DA-15 connector, DE-9 serial, or DIN-6. The SeaHub is available as either a 19" rack mountable unit, or as a portable desktop package.

Key Specification	
Materials	Stainless Steel housing with Anodised Aluminium front fascia
Power requirement	100 - 240V AC 50-60 Hz 12 - 36V DC
Weight	1.30kg / 2.87lbs or 3.40kg / 7.50lbs

Physical specification	
Power requirement	100 - 240V AC 50-60 Hz 12 - 36V DC
Power output with AC input	28V DC (35W, 1.25A)
Power output with DC input	The same as input voltage (maximum 1.25A)
Power output options	Jumper options for fixed 5V or 12V DC
Front ports	2x USB 2.0 (Type A) female 1x DE-9 Remote Access Terminal
Port A functionality	RS232 with handshaking or RS485
Port B functionality	RS232, RS422, RS485

				
	Pin	RS232	RS485	ARCNET
	1	RX	TX/RX-A	LAN A
	2	TX	TX/RX-B	LAN B
	3	+ DC (max. 24V)		
	4	0V		
	5	Communications Ground		
	6	Screen		

								
	Port A and B		Port B	RAT (front panel)	Pin	Function	Pin	Function
Pin	RS232	RS485	RS422					
1	⊥	⊥	⊥	0V	1	n/c	9	+12v DC
2	RX	TX/RX.A	TX.A	+5v DC	2	Comms GND	10	VCC
3	TX	TX/RX.B	TX.B	RAT RS485 B	3	0V	11	LAN EN
4	⊥	⊥	⊥	RAT RS485 A	4	LAN RX	12	RS232 RTS
5	Communications Ground			⊥	5	RS232 CTS	13	RS232 RX
6	⊥	⊥	⊥	⊥	6	RS232 TX	14	LAN pulse 1
7	RTS	⊥	RX.B	PS/2 SCLK	7	LAN pulse 2	15	LAN B
8	CTS	⊥	RX.A	PS/2 SDATA	8	LAN A		
9	⊥	⊥	⊥	+12v DC				

Physical specification	Desktop version	Rack mount version
Materials	Stainless Steel housing with Anodised Aluminium front fascia	
Weight	1.30kg / 2.87lbs	3.40kg / 7.50lbs
Dimensions	242.5mm x 191.66mm x 53.81mm / 9.55in x 7.55in x 2.12in	482.6mm x 219.3mm x 43.7mm 19.01in x 8.64in x 1.73in
Temperature (operating)	5°C to 35°C / 41°F to 95°F	
Temperature (storage)	-20°C to 50°C / -4°F to 122°F	

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