Seanet SCUv5

Surface Control Unit

Rugged rack mounted control unit

The Seanet SCU is a multi-tasking control unit running under Microsoft Windows™ Embedded, which is installed on an internal solid-state disk.

Supplied with the Seanet SCU is a Remote Access Terminal (RAT) which is an ergonomically designed device proving the user with a number of control functions. This RAT either clips neatly onto the front of the unit or is used remotely over the extensions a cable.

To ensure the Seanet SCU provides a reliable, rugged and easy to install unit it has been designed as a robust 19" 3U rack mount unit with ruggedly mounted sub assemblies for maximum reliability.

A high speed 156kbit•s^{-1} communication system is used within the Seanet SCU, allowing a full suite of Tritech sensors to be operated over a single twisted pair or, by using the Tritech MultiComm Junction Box, over an RS232 or fibre optic interface.

The Seanet SCU is supplied with Tritech's Seanet Pro software (which is pre-loaded onto the SCU). Seanet Pro allows for the integration of multiple Tritech sensors, offering a single point of control for all the sensors on the ROV.

When running Seanet Pro, each device connected to the Seanet SCU runs in real time in its own window. The display may be varied to show single or multiple windows and this can be altered at any time during normal operations.

This multiple sensor capability provides obvious cost benefits as well as reducing the space requirement for consoles in the control room.

Tritech's Genesis software can also be installed on the Seanet SCU, providing users with additional software tools when operating some of the latest Tritech sensors.

Benefits

- Rugged, versatile construction
- Control Gemini sonars
- Control multiple SeaKing sensors
- Expandable and configurable
- Integrate into IT infrastructure

Features

- High resolution video output
- Multiple input/output ports
- USB ports included
- Flash card reader
- Port activity lights
- RS232, RS485, ARCNET, Ethernet

Applications

- Tritech sonar control
- Tritech survey sensor control
- Third party equipment control
- Integration of GPS and survey data
- Logging and playback of sonar scans

Specification

Physical specifications	
Case width	432mm
Front panel width	482mm (19”)
Height	133mm (3U)
Depth	325mm
Depth including handles	376mm
Weight	10kg
Materials	Aluminium, Stainless steel
Operating temperature	5° to 35°
Storage temperature	-20° to 50°

Interface ports			
Interface type	**Connectors**	**Number of ports**	**Communication**
RAT	DE-9 (9 pin female)	1	RAT extension
User interface	DE-9 (9 pin male)	6	ARCNET*[1], RS232, RS485 or RS422
	DA-15 (15 pin female)	1	ARCNET*[1] or RS232
	USB (front)	4	USB 2.0
	USB (rear)	4	USB 3.0
	RJ45	1	1Gbit Ethernet
Video output	DA-15 (15 pin male)	1	SVGA, XGA or SXGA
	Display port	2	Display port*[2]

Electrical	
Input voltage	Universal 100-240VAC 50/60Hz
Power consumption	300W (nominal)
Processor	Intel™ i5 (or better)
Storage	120GB SSD

Software	
Operating system	Microsoft Windows™ Embedded
Software	Tritech Seanet Pro control, display software and Genesis (optional)

Options
Additional 1Gbit Ethernet port

*[1] ARCNET speed 156kbit•s^{-1} (1200m) or 78kbit•s^{-1} (2500m)
*[2] HDMI and DVI outputs available using supplied adaptors

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

Marketed by:

Tritech International Limited
Peregrine Road, Westhill Business Park
Westhill, Aberdeenshire AB32 6JL
United Kingdom
email: tritech-sales@moog.com
Tel: +44 (0)1224 744111