

Seanet SCUv5

Surface Control Unit



Multi-tasking operating system and speedy solid state media

The Seanet SCU is a multi-tasking control unit running under Microsoft Windows™ Embedded, which is installed on an internal solid-state disk. The Seanet SCU allows for complete control of the software using a Remote Access Terminal (RAT). This is an ergonomically designed device which either neatly clips onto the front of the unit or is used as a remote via a cable. The built in mini-joystick on the RAT provides a useful tool for carrying out range and bearing measurements on sonar data.

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 Trittech sensors to be operated over a single twisted pair or, by using the Trittech MultiComm Junction Box, over an RS232 or fibre optic interface.

Each device connected to the Seanet SCU runs, in real time, in its own on screen window. The monitor 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.

Using the multi-device capable Trittech Seanet Pro software (which is pre-loaded onto the SCU) it is possible to integrate systems with both Gemini and SeaKing devices, offering a single point of control for all the sensors on the ROV.

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

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

Specification

| Physical | |
|-------------------------|----------------------------|
| 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°C |
| Storage temperature | -20 to 50°C |

| Interface Ports | |
|-----------------|--|
| Ports | 4 x 9-pin DE-9 ports (configurable RS-232, RS-485, RS-422, ARCNET) 1 x 15-pin DA-15 port for ARCNET or RS232 1 x 24VDC at 36VA Output (for equipment test purposes) Front and rear USB 2.0 ports Multi-card reader (CF Type 1 & SD card) Ethernet |
| Video output | HDMI, DVI, SVGA, XGA or SXGA |
| ARCNET | 1 x 156kbit·s ⁻¹ (1500m) or 78kbit·s ⁻¹ (2500m) |

| Electrical and Components | |
|---------------------------|---|
| Input voltage | Universal 100-240VAC 50/60Hz |
| Power consumption | 250W (nominal) |
| Processor | Intel™ Dual Core (or better) |
| Storage | Minimum 32GB SSD (10GB reserved for OS) |

| Software | |
|------------------|---|
| Operating system | Microsoft Windows™ Embedded |
| Software | Tritech Seonet Pro control and display software |

| Options | |
|---|--|
| Composite PAL/NTSC output Composite video input Internal HDD (instead of SSD) Additional Gigabit Ethernet ports (for Gemini sonars). | |