

Command & Control Hardware

Communications Interface Unit

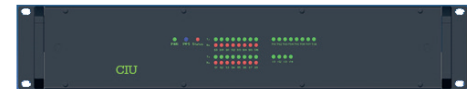
High-Performance Real-Time Navigation Unit

Communications Interface Unit

CIU is the latest high-performance, real-time navigation unit from Sercel Concept for use with Orca® and Gator™ command and control systems. With its robust hardware and software; enhanced diagnostics and compatibility with external operating systems including Linux, the CIU is the industry leading command and control hardware.

Main Features of the CIU

- > Rugged fanless enclosure designed for offshore survey environment, 2U 19" rack or desktop mounting
- > Embedded Linux Host Controller
- > 10/100/1000 BaseT auto-negotiating Ethernet port connection to navigation network
- > Secondary 10/100/1000 BaseT auto-negotiating Ethernet port
- > Interfacing to ~ 300 sensors and headers
- > Embedded NTP Server (Stratum 1) synchronized by onboard GNSS receiver
- > 16 serial ports, software selectable for RS232, RS422 or RS485
- > 8 output triggers software selectable for TTL (Active Hi/Lo) or RELAY (Normally Open/ Normally Closed)
- > 4 input triggers software selectable for TTL (Active Hi/Lo) or RELAY (Normally Open/ Normally Closed)
- > GNSS clock delivering accurate time and standalone GNSS position to initiate navigation calculation
- > GNSS clock 'holdover' mode keeps good time for approximately 24 hours during GNSS signal outage
- > All input and output connectors on rear panel
- > Data activity & status LED indicators on rear panel, also repeated on front panel
- > External universal input AC-DC power supply
- > RoHS compliant. CE Mark & FCC Mark pending
- > Trigger timing accuracy to better than 25 μ s
- > GNSS Timing Engine (GTE) - Xilinx Spartan 6 FPGA with Microblaze 'soft' processor used to manage all triggers
- > 1PPS or any trigger input available by configuration on any trigger output



Dimensions & Power

Dimensions	480mm x 460mm x 90mm (2U High)
Weight	8Kg
Power Supply	External Universal Input 90 - 264 VAC (47 - 63Hz) AC-DC, Output 12.0V DC @ 7.5A Max
Power Dissipation Maximum	90W (< 0.4A @ 220V AC, <0.8A @ 110V AC)

Environmental

Operating Temperature	0°C to + 45 °C
Storage Temperature	-40 °C to +80 °C
Operating Humidity (NC)*	5% to 85%
Storage Humidity (NC)*	5% to 95%

*Non-condensing

EMC Compliance and Electrical Safety

Electromagnetic Compatibility, Generic Emission EN61000-6-4:2007 +A1:2011 (Pending)	EN61000-6-4:2007 +A1:2011 (Pending)
Electromagnetic Compatibility, Generic Immunity EN61000-6-2:2005 (Pending)	EN61000-6-2:2005 (Pending)
Electrical Safety Assessment, Low Voltage directive EN60950-1:2006 +A2:2013 (Pending)	EN60950-1:2006 +A2:2013 (Pending)

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