INNOVA

Micro MATRIX™
An ideal choice for small ROV's

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Part number: 6011000

Micro Matrix is the response to a growing need for compact ROV systems carrying a larger spread of sensors. Based on the same proven technology as the successful Matrix MKII+ and Mini Matrix, the Micro Matrix provides a plug and play interface for sensors in an extremely compact package.
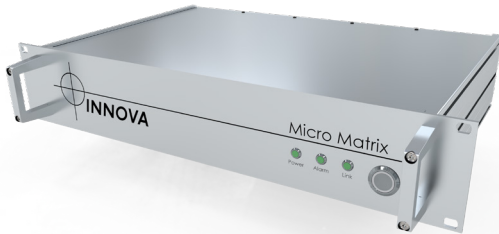
Micro Matrix supports most dual head multibeam systems available on the market. By combining several 1 Gbps Ethernet and serial channels together with the availability of both 24 VDC and 48 VDC, the Micro Matrix is an ideal system for adding advanced survey capabilities with minimal weight and size requirements.

Key features

- 3 x 1 Gbps Ethernet

- 3 x Serial Data

- 3 x Independent PPS / triggers

- Small form-factor multiplexer

- Rugged design for harsh environments

- Depth rating down to 3000 m

TOPSIDE

- Ports for Ethernet and serial communication
- 19" 2U rack mount
- Weight: 3.7 kg

WEB INTERFACE

- Web browser based interface for mirrored control
- Control and diagnostics
- Status for all channels
- Alarm / warning logging
- Operational hours logged

POWER INPUT

Subsea:
- 85 V - 264 V (AC) / 120 V - 370 V (DC)
- 47 Hz - 63 Hz

Topside:
- 90 V - 265 V (AC)
- 47 Hz - 63 Hz

POWER OUTPUT

- 2 x 24 VDC / 48 VDC - Software switchable
- 1 x 24 VDC
- Software resettable fuses on DC power output
- 525 W available DC power

SIGNAL INTERFACE

- 3 x 1 Gbps Ethernet
- 2 x RS232 channels
- 1 x software switchable RS232 / RS485 channel
- 3 x independent PPS / triggers
- All serial and trigger interfaces are isolated

MECHANICAL PROPERTIES

- Aluminium 6082-T6, hard anodized
- Dimensions: D 158 mm, L 368 mm
- Weight Canister: 10.4 kg (air), 4.4 kg (sea)
- Depth rating: 3000 MSW

OTHER

- Water ingress detection
- Temperature sensor topside and subsea
- DC ground fault detection system
- Fiber and SFP diagnostics
- Control board diagnostics

CONNECTORS

	Type	Communication	Power
C1	5506-2021	Gbps Ethernet, RS232, PPS / trigger	24 / 48 VDC
C2	5506-2021	Gbps Ethernet, RS232, PPS / trigger	24 / 48 VDC
C3	5506-2021	Gbps Ethernet, RS232 / RS485, PPS / trigger	24 VDC
Fibre	472-F-BCR, SM	Topside <-> Subsea Single mode	
Power	5506-206		85 V - 264 V (AC) / 120 V - 370 V (DC)

innova.no
sales@innova.no
+47 51 96 17 00