Ethernet
Expansion Canister for MATRIX™

innova.no

Part number: 6041000

Ethernet expansion combines an ethernet switch and power management into a small, compact design based on the new Micro Matrix™ canister.

Made to be compatible with all existing Matrix™ products. The Ethernet expansion will let you switch one of the 1 Gbps interfaces on a Matrix into six dedicated 100 Mbps Ethernet interfaces. Each channel will have 24 VDC with typically 1 A for powering equipment.

Key features

- 6 x 100 Mbps Ethernet

- 6 x 24 VDC (1 A Typ /2 A Max) outputs

- Small form-factor multiplexer

- Rugged design for harsh environments

- Remote firmware upgrade

- Depth rating down to 3000 m

Preliminary version No. 3

INTERFACE

- Firmware Upload
- Modbus Control
- Modbus TCP (future upgrade)
- Status for all channels

POWER INPUT

Subsea:
- 24 VDC
- 6 A

POWER OUTPUT

- 6 x 24 VDC (1 A)
- All channels can be individually isolated

SIGNAL INTERFACE

- 6 x 100 Mbps Ethernet

CONNECTORS

	Type	Communication	Power
Input	5506-2021	1 Gbps Ethernet	24 VDC (6A)
C1	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*
C2	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*
C3	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*
C4	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*
C5	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*
C6	MCBH8F	100 Mbps Ethernet	24 VDC (1A)*

* Depending on power configuration.

Maximum output is 2A for one individual channel.
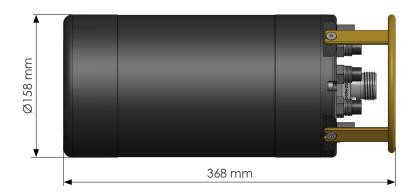
MECHANICAL PROPERTIES

- Material: Aluminium 6082-T6, hard anodized
- Dimensions: Ø 158 mm, L 368 mm
- Weight Canister: TBD kg (air), TBD kg (sea)
- Depth rating: 3000 msw

OTHER

- Water ingress detection
- Temperature sensor subsea
- Compatible with Matrix ground fault detection system**
- Control board diagnostics (future upgrade)
- Pressure relief vent

** Only overall ground fault detection. Individual connector detection will be implemented in later version.

Ø158 mm

368 mm

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