



# MATRIX™ NOVA

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Part number: 6011601

**Our new Matrix™ Nova is meeting the demands of tomorrow, with more high speed Ethernet channels and new electronics and software. Based on the rugged and field proven body of our Mk II+.**

The system consists of a compact, one-atmospheric subsea unit rated for 3000 msw, and a 19" rack-mounted topside unit with touch screen featuring status for all channels, ground fault detection and input for OTDR.



## Key features

- Web based control interface
- Software resettable fuses
- Highly configurable in software

The Matrix's internal control system provides individual 2-pole switching of all power outputs as well as DC power insulation monitoring.

The DC power outputs are equipped with software resettable fuses to save operation time. All DC power outputs are equipped with voltage and current monitoring, which is also displayed in the topside controller.

## TOPSIDE

- 7" Linux based touch screen interface for control and diagnostics
- Status for all channels on screen, power and communication
- Voltage and current monitoring
- Alarm / warning logging
- Operational hours logged
- Web browser based interface for mirrored control
- Ethernet connection for control
- Fibre input for OTDR (19" 3U rack mount)
- Weight: 8 kg

## POWER INPUT

### Subsea:

- 85 - 264 VAC / 120 - 300 VDC
- 47 - 63 Hz

### Topside:

- 90 - 265 VAC
- 47 - 63 Hz

## POWER OUTPUT

- Software resettable fuses on DC power output
- 2 x 24/48 VDC (6 A), SW switchable
- 4 x 24/48 VDC (6/3 A), SW switchable
- 9 x 24 VDC (2 A) outputs 2-pole relay
- 1 x 110/230 VAC 2-pole relay output (glass fused)
- 1200 W available DC power

## SIGNAL INTERFACE

- 10 x RS232
- 2 x software switchable RS232/RS485
- 4 x 1 Gbps Ethernet
- 7 x 100 Mbps Ethernet
- 3 x 5 V individual triggers (TTL PPS)
- All serial and trigger interfaces are isolated

## MECHANICAL PROPERTIES

- Material: Aluminium 6082-T6
- Dimensions: Ø 230 mm (223 mm in centre), L 596 mm (Alu)
- Weight Canister: Approx. 35 kg (air), 13 kg (sea)
- Depth rating: 3000 MSW

## CONNECTORS

	Type	Communication	Power
C1	G5506-2021	1 Gbps Ethernet, RS232, Sync with C2, 5 V TTL (PPS)*	24/48 VDC, (6 A) (SW switchable)
C2	G5506-2021	1 Gbps Ethernet, RS232, Sync with C1, 5 V TTL (PPS)*	24/48 VDC, (6 A) (SW switchable)
C3	G5506-2021	1 Gbps Ethernet, RS232, 5 V TTL (PPS)*	24 VDC (6 A) / 48 VDC (3 A) (SW switchable)
C4	G5506-2021	1 Gbps Ethernet, RS232, 5 V TTL (PPS)*	24 VDC (6 A) / 48 VDC (3 A) (SW switchable)
C5	G5506-2021	2 x 100 Mbps Ethernet, RS232, 5 V TTL (PPS)*	24 VDC (6 A) / 48 VDC (3 A) (SW switchable) +24 VDC (2 A)
C6	G5506-2021	2 x 100 Mbps Ethernet, 2 x RS232, 5 V TTL (PPS)*	24 VDC (6 A) / 48 VDC (3 A) (SW switchable) +24 VDC (2 A)
C7	MCBH8F	100 Mbps Ethernet, 5 V TTL (PPS)*	24 VDC (2 A)
C8	MCBH8F	100 Mbps Ethernet	24 VDC (2 A)
C9	MCBH8F	100 Mbps Ethernet, 5 V TTL (PPS)*	24 VDC (2 A)
C10	MCBH8F	RS232, 5 V TTL (PPS)*	24 VDC (2 A)
C11	MCBH8F	RS232, 5 V TTL (PPS)*	24 VDC (2 A)
C12	MCBH6F	RS232	=Input voltage AC only (3,15 A)
C13	MCBH8F	RS232 / RS485	24 VDC (2 A)
C14	MCBH8F	RS232 / RS485	24 VDC (2 A)
Fibre	472-G-BCR, SM	Topside<->Subsea	
Power	G5506-2006		85-264 VAC (47-63 Hz) 120-300 VDC

\*3 individual TTL channels.

## OTHER

- Two-stage noise attenuation filter on power input
- Humidity sensor subsea
- Temperature sensor topside and subsea
- DC ground fault detection system
- Fibre and SFP diagnostics
- Control board diagnostics
- Water ingress detection



CUSTOM BUILDS AVAILABLE ON REQUEST

Last modified: March 25, 2026

Note: We accept no liability for any printing errors or changes in specification.

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