

EMO DOMINO-7 MK II

Fibre optic video/data multiplexer



Features and benefits

- Compact
- Multiple subsea power outputs
- Fibre redundancy
- Integrated diagnostic suite

Applications

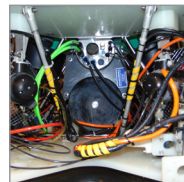
- Remotely operated vehicles (ROVs)
- Pipe/hull inspection robotics
- Bomb disposal systems
- Security, defence and industrial sensor applications
- Subsea ocean observation systems

Options

- Fibre redundancy
- Optical diagnostics
- Power switching

The DOMINO-7 multiplexer (MUX) is a compact fibre optic system with a wide range of MUX channel and power supply configurations. Offering 3 videos with 10 bit data channels, the DOMINO design also offers 2 x industry standard multibeam ports, consisting of gigabit Ethernet (GBE) communications, coupled with 48 VDC supply voltage, all provided within the same connection. Further power supply channels at 28 VDC are also available at the subsea housing, along with a unique 6-way data-cable system, the DOMINO-7 MUX system remains flexible to user requirements and can be rapidly re-configured to meet the power and protocol needs of a large number of ocean tools and devices.

DOMINO-7 utilises a redundant fibre switching technology, allowing manual, or automatic sensing, and switching to a second back-up fibre providing uninterrupted communication via the fibre link, which is monitored and can be accessed through the topside diagnostic port and user-friendly software package.



Specifications - topside unit

Mechanical		Transport
Dimensions:	19" rack mount, 2 U high	Delivered in Pelicase
Electrical		
Supply voltage:	110-230 VAC, 50/60 Hz	
Power consumption:	40 W	

Specifications - subsea unit

Mechanical		Fibre optic	
Dimensions:	OD 8.00" (203.2 mm) Length 12" (320.04 mm)	Fibre type:	Single mode 9/125
Depth rating:	3,000 m	Data rate:	1,250 Mbps optical transceivers
Material:	Stainless steel (AISI 316) (titanium version available)	Wavelengths:	CWDM red band 1,471-1,611 nm
Weight in air:	Approx. 34.5 kg (76.2 lbs)	Number of fibres required:	2
Multiplexer		Flux budget:	20 dB
Multibeam sonar signals:	2 x GBE 10/100/1000Base-T	Maximum link distance:	10 km
Video :	3 x (PAL/NTSC) 75 ohm	Features:	Dual fibre redundancy, with fibre switching at surface rack
RS 232:	8 x 120 Kbaud	Diagnostics	
RS 485:	2 x up to 5 Mbaud	Control:	Power switching at surface rack
TTL:	1	Monitoring:	Humidity and temperature alarm, optical budget and link status, feedback on power status, video status, mux link and fault status, fibre A-B status
Trigger +/-5-25V:	1		
Ethernet:	2 x 10/100Base-T		
Electrical			
Supply voltages:	85-240 VAC (DC options available)		
Output voltages:	14 x 28 VDC max 18 A total 2 x 48 VDC max 6 A total		