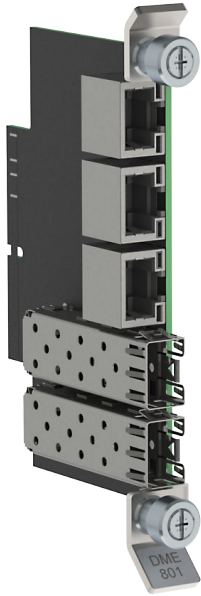


Ethernet Switch Module DME801



Vaisala Ethernet Switch Module DME801 adds 5 Ethernet connections to Vaisala Data Management Unit DMU801. Its 1 Gb Ethernet connectors include 3 copper ports and 2 slots for fiber-optic SFP module.

Adding Ethernet connectivity to DMU801

While the DMU801 base unit already includes a 100 MB Ethernet port for basic activities and a USB port for setup and maintenance tasks, DME801 adds 5 ports with 1 Gb connections and expands the selection of supported Ethernet protocols.

Easy expansion when needed

DME801 is easy to install during initial system setup and can also be plugged in later to expand the selection of sensors. DME801 can be configured with the intuitive, node-based Vaisala Kaiku Designer.

Features

- 5 Gigabit Ethernet connectors including:
 - 3 copper port connectors
 - 2 small form-factor pluggable (SFP) module slots for fiber-optic traffic (software support for one SFP module)

Technical data

Operating environment

Operating temperature	-40 ... +85 °C (-40 ... +185 °F)
Extended operating temperature (available on request)	-60 ... +85 °C (-76 ... +185 °F)
Storage temperature	-60 ... +85 °C (-76 ... +185 °F)
Operating humidity	0-100 %RH, non-condensing

Inputs and outputs

Ports	<ul style="list-style-type: none">• 3 × copper ports, RJ45 connectors• 2 × SFP module slots ¹⁾
Supported standard	IEEE 802.3
Physical layer, copper ports	Base-T
Data rate	10/100/1000 Mbps
Data transmission	Full/Half-duplex with auto-negotiation

¹⁾ Support for the second SFP module will be available in the future releases.

Mechanical specifications

Dimensions (H × D)	123 × 79 mm (4.84 × 3.11 in)
Distance between 2 plug-in module slots in DMU801 frame	18 mm (0.71 in)
Weight	65 g (2.3 oz)
Material	UL-rated fire-resistive FR4
Handles	Stainless steel
Coating	Conformally coated against humidity

Compliance

EU directives and regulations	EMC, RoHS	
EMC immunity	EN 61326-1, industrial environment	
EMC emissions	CISPR 32 / EN 55032, Class B FCC part 15 B, Class B ICES-3 / NMB-3 (Class B)	
Cybersecurity	Developed in accordance with ISO/IEC 27001 and IEC 62443-4-1 for secure product development practices	
Compliance marks	CE, FCC, ICES, RCM, UKCA	
Test	Applied standard	Description/Value
Maritime	IEC 60945	-
Vibration (sinusoidal)	IEC 60068-2-6	5-13.2 Hz, 1 mm (0.04 in) amplitude 13.2-200 Hz, 0.7 g
Rough handling	IEC 60068-2-31	Drop height 100 cm (39.37 in)
Shock	IEC 60068-2-27	15 g, 11 ms, saw-tooth
Dry heat	IEC 60068-2-2	+85 °C (+185 °F)
Damp heat	IEC 60068-2-78	+40 °C (+104 °F), 95 %RH
Cold	IEC 60068-2-1	-60 °C (-76 °F)