SIX PORTS / 10/100 ETHERNET

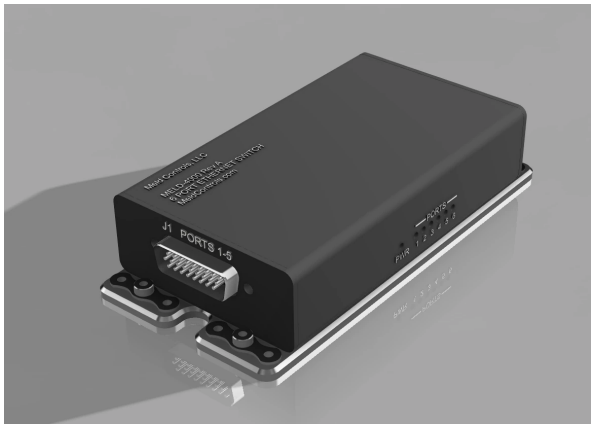
MELD-4000

COMPACT ETHERNET SWITCH

A connectorized, **unmanaged six-port Ethernet switch** for industrial controls, embedded equipment and engineering networks - without bulky onboard RJ45 jacks.

BUILT FOR EQUIPMENT INTEGRATION

Layer 2 • 6 ports • No IP setup



REV A ENCLOSURE RENDERING

PURPOSE-BUILT FOR CONNECTED EQUIPMENT

Six ports. Simple integration.

Connect PLCs, data recorders, gateways, operator interfaces and other Ethernet equipment through one compact switch. The MELD-4000 transparently forwards Ethernet traffic without an assigned switch IP address.

01 TRANSPARENT SWITCHING

Unmanaged Layer-2 forwarding; endpoint devices retain their own network settings.

02 CONNECTORIZED I/O

One front HD26 carries ports 1-5 and DC power; rear DE9 carries port 6.

03 AT-A-GLANCE STATUS

Dedicated power and six individual port-indicator positions on the enclosure.

SIX-PORT TOPOLOGY

J1 / FRONT HD26
Ethernet ports 1-5

↔ **MELD-4000** ↔

J2 / REAR DE9
Ethernet port 6

REV A HARDWARE VIEWS



Power + port indicators — STATUS



Rear DE9 / port 6 — J2



Enclosure design — TOP

Product renderings illustrate the Rev A design; final configuration and performance remain subject to release verification.

Technical specifications

Rev A six-port configuration based on the MELD-4501 Ethernet switch PCB. The following reflects the design and connector-assignment baseline, not a completed product-qualification report.

ETHERNET / SWITCHING

Ethernet ports	6 copper ports
Speed	10/100BASE-TX (design)
Switch type	Unmanaged, Layer 2
Configuration	No switch IP address required
Routing	Not a Layer-3 router

POWER / PHYSICAL

Input voltage	5-28 VDC (Rev A target)
Power entry	J1 front connector
Enclosure	Compact metal housing
Status	PWR + six port positions
PCB baseline	MELD-4501, Rev A

FRONT CONNECTOR / J1

Type	HD26 male, 26 contacts
PCB part	TE 2311776-1
Ethernet	Ports 1-5, 2 pairs per port
Power	VIN + return on J1
Shield	Separate CHASSIS contacts

REAR CONNECTOR / J2

Type	DE9 male, 9 contacts
PCB part	Amphenol L17HTNEP4F1C
Ethernet	Port 6, 2 differential pairs
Power	No power on rear J2
Reserved	Pins 6-9: no connection

CONNECTOR PIN GROUPS / REV A

J1 / HD26 - PORTS 1-5 + DC POWER

PORT 1	1-4
PORT 2	5-8
PORT 3	10-13
PORT 4	14-17
PORT 5	19-22
POWER + / RETURN	23,24 / 25,26
CHASSIS	9,18

J2 / DE9 - PORT 6

PORT 6	1-4
CHASSIS	5
RESERVED / NC	6-9
PORT PAIR ORDER	TX+, TX-, RX+, RX-

INTEGRATION APPLICATIONS

INDUSTRIAL
PLC + HMI networks

TEST & MEASURE
Bench equipment

SYSTEMS
Gateways + recorders

Design notes: All six Ethernet connections are full-duplex interface candidates with two differential pairs per port. Pin numbers are electrical contact assignments, not mating-face diagrams. Confirm matching harness, grounding and pair integrity before installation.

Preliminary Rev A design information. No environmental, aircraft or other regulatory qualification is claimed. Electrical ratings, performance and availability are subject to verification.