

## MIL-HD2

### NEXT GEN SOSA/VITA 91 ALIGNED CONNECTOR SERIES



#### Description

MIL-HD2 is a robust solution for tighter card pitches and chassis designs, where space requirements and density are critical. These connectors are available in 3-, 4-, and 6-pair configurations: Providing the MIL embedded market with the highest count of differential pairs available today in a 3U configuration at 56Gb/s PAM 4 speeds.

This series provides a SOSA aligned solution for next gen switch and payload card requirements enabling the MIL-embedded market to meet next gen performance levels while still meeting COTS requirements.

#### Benefits

- Data rates scalable to 56Gb/s PAM4
- Highest density with 1.80mm pitch
- Proven EMI and signal integrity advantages
- Improved impedance matching
- Enables hot plugging
- Meets high density application requirements

#### Features

- Configurations meet SOSA/VITA91 requirements for HD switch
- 4 diff, 8 column - SOSA aligned configuration
- Proprietary crosstalk reducing technologies
- 15.7mil drill compliant pin allows deeper backdrilling
- Shielded contacts mate before signal contacts
- Embedded capacitor available
- Differential pairs 28-84 per inch (11-33 differential pairs/ cm)
- Passed VITA 72 vibration level testing with BER monitoring

#### Configuration



**Module -4pr 8 Column, Extra Ground, 50u Gold, Tin & Lead Free**

- 3U Configuration Qty: 5
- Part Number: MHD24P800M1



**Backplane -4pr 8 Column, Extra Ground, 50u Gold, Tin & Lead Free**

- 3U Configuration Qty: 5
- Part Number: MHD24J800M1



**Mezzanine -4pr 8 Column, Extra Ground, 50u Gold, Tin & Lead Free**

- 3U Configuration Qty: 5
- Part Number: MHD24M800M1

#### Markets



Commercial Aerospace



Military Aerospace



Electronic Systems / C5ISR



Ground Vehicle



Missiles



Space

# MIL-HD2

## How to order

1.	2.	3.	4.	5.	6.	7.
Connector Type	Differential Pairs	Gender	Columns	Special Options	Contact Plating	Contact Termination Finish
MHD2	4	J	8	00	M	1

### 1. Connector Type

**MHD2** MIL-HD2 - (56 Gbps PAM4)

### 2. Differential Pairs

- 3
- 4 Number of differential pairs per column
- 6

### 3. Gender

- J Backplane (without endwalls)
- P Daughtercard
- M Mezzanine

### 4. Columns

- 4
- 6 Number of columns
- 8

### 5. Special Options

**00** Optional 2 digit indicator for specials (*partial loads...*)  
Shall always be "00" when not used.

### 6. Plating

**M** 50 µ-inch Gold (1.27 µm)

### 7. Contact Termination Finish

**1** Gold (Tin and Lead free) ✓

✓ RoHS compliant

## Installation tools

<b>10-743053-001</b>	Backplane Installation Tool
<b>10-743053-002</b>	Daughter Card Installation Tool