



Making SCSI Work - www.paralan.com

LVD/MSE TO HVD SCSI CONVERTER

SERIES 80 Models MH16A, MH17A

- Convert Between LVD or Single-ended and HVD
- Extend SE or LVD Bus Length
- Isolate HVD Segments of a SCSI bus
- Stand-alone and Board-level Versions Available:



The stand-alone Model MH16A includes a power supply for standard power line operation

Interconnect HVD with LVD/MSE Devices

Quick Reference: [Operation](#) | [Specs](#) | [Ordering Info](#)



The board-level version Model MH17A is sized to fit in a standard 5.25" drive bay.

- Targets and initiators may be located on both sides of the Expander
- The Series 80 models are backward compatible with older versions of SCSI
- Does not consume a SCSI ID

For a printable version of this information, please see the [PDF version](#) of this data sheet



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Specifications MH16A/17A SCSI Multimode Expander

Environmental

Relative Humidity: 0 - 95% non-condensing
 Operating Temperature: 0 - 50°C
 Storage Temperature: -25 to +75°C

Power Requirements

Stand-alone units (MH16):
 Voltage: 100 - 260 VAC, auto select
 Frequency: 50 - 60 Hz
 Board-level units (MH17):
 Voltage: 5 V dc ±5%
 Current: 1.5 A max

Safety Approvals

UL, CSA, TUV, CE

EMI/RFI

FCC Class A, CE

SCSI Connections

MH16A, MH17A: SCSI-3 68-pin High-Density female Alt-3 "P" Connector

Communication

Sustained Data Throughput: Limited by HVD bus to 40 MBytes/sec (16-bit)

Warranty

Two year limited warranty

Weight:

MH16A: approx. 2 lb (0,9 kg)
 Shipping weight, approx. 4 lb (1,8 kg)
 MH17A: 2.5 oz (71 g)
 Shipping weight, approx. 2 lb (1 kg)

Physical Size (MH16A)

Height: 1.6 in. (41 mm)
 Width: 4.1 in. (104 mm)
 Depth: 4.5 in. (114 mm)

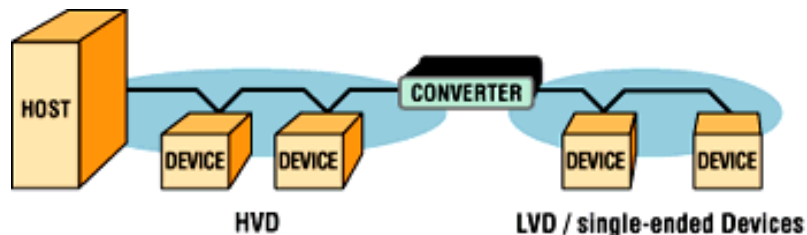
Board-Level Version Dimensions:

Overall board dimensions 4.00 x 3.88 in. (101,6x98,5 mm)
 See [PDF drawing](#) for details.

Paralan's Series 80 models MH16A / MH17A let you add LVD devices into an existing High Voltage Differential (HVD) system, or utilize existing HVD devices in an LVD/MSE or single-ended system. All this is accomplished without any impact on SCSI protocol or loss of data thrupt.

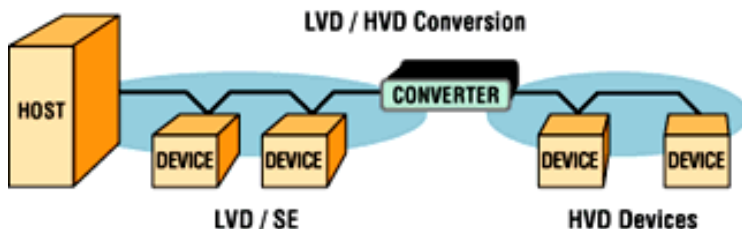
Using LVD/MSE Devices in an Existing HVD System

LVD/MSE or single-ended devices can be easily added to an existing HVD SCSI segment by attaching a Series 80 LVD/MSE to HVD Converter to the SCSI chain, and adding the LVD and/or single-ended devices to the LVD port of the Converter. The Converter will not consume a SCSI ID, and the system will operate with no compromise of thrupt.



Using HVD (High Voltage Differential) Devices in an LVD/MSE System

HVD Devices can be added to an LVD/MSE or Single-ended system simply by adding a Series 80 LVD/MSE to HVD Converter, attaching the HVD SCSI segment to the HVD port of the Converter. The Converter will not consume a SCSI ID, and the system will operate with no compromise of thrupt.



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Mixing SCSI Device Types

Multimode LVD SCSI will automatically change to Single-Ended (SE) if an SE device is on the same bus segment. However, neither LVD nor SE SCSI can directly communicate with HVD SCSI. A Series 80 Model MH16A or MH17A LVD/MSE to HVD SCSI Converter enables this type of communication by converting the LVD or SE SCSI to HVD or vice versa. The presence of a Series 80 SCSI Converter will not decrease data throughput.

Paralan SCSI Converters and SCSI Expanders are completely compatible with all devices that conform to the full ANSI X3T10 standard. They are available either as stand-alone units utilizing wall power, or as board-level units for installation in other equipment.

Isolation for Hot Swapping

The logical isolation between the two sides of a Series 80 SCSI Converter allows a device on one side, for example, to be disconnected without disturbing the other side.

Narrow/Wide Conversion

The MH16A and MH17A (wide) models may be used to interconnect narrow SCSI devices on one side, for example with wide SCSI on the other side. This method assures proper termination on both bus segments.

SCSI bus Fiber Optic Extenders

Paralan is the world's leader in SCSI extension. If your needs require longer lengths than those managed by Series 80 SCSI Expanders, Paralan offers many models of Fiber Optic [SCSI Extenders](#) that extend the SCSI bus up to 4 km – 2-1/2 miles.



NEW! Paralan can match your SCSI needs with custom SCSI components, modifications to standard Paralan products, or even with [custom products!](#)

Paralan is ready to meet your exact requirements by applying our SCSI-savvy engineering - from SASI through Ultra320.

Need to place an order? Or do you need additional assistance?
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Ordering Guide

Model Numbers		SCSI Product Description
Stand-alone	Board Version	
MH16A	MH17A	SCSI Wide LVD/MSE to HVD Converter (16-bit)
	2811	5-1/4" Half Height Drive Bay Mounting Bracket & Faceplate for MH17A
SQxx		SCSI Quiet Cable™ (specify length)

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