

# VMEbus Test Extender Board

"J1" and "J2" Connectors Installed

## Features

- ◆ Ideal for 160mm and 220mm card cage applications where signal interrupt switches are required
- ◆ 3-row DIN41612 Class II connectors - standard
- ◆ High-performance 5-layer, low noise-balanced, controlled impedance PCB featuring Dawn's hybrid microstrip/stripline design
- ◆ PCB is 0.062" thick per MIL-P-13949
- ◆ 2-oz copper power and ground planes
- ◆ 1-oz copper signal planes
- ◆ Signal, Power and Ground pin assignments are in accordance with the VMEbus specification
- ◆ Connectors are provided on both sides of the DIP switches to facilitate probing with a logic analyzer and to install termination modules
- ◆ High quality extender guides come standard with ejectors

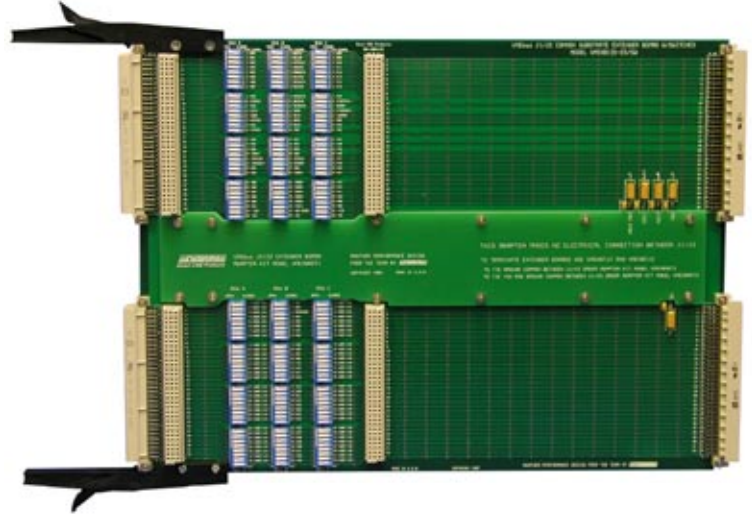
## Overview

Dawn VME Products created the industry's first VMEbus test/extender board in the 1980's. Today, the model featured in this data sheet - **Model 3131** - continues to provide excellent troubleshooting capability, and continues to be Dawn's best-selling VMEbus test/extender board.

**Model 3131** offers many features not commonly found on competitors' models. High-performance DIP switches are provided to allow interruption of any signal, power or ground line, perfect for troubleshooting device-under-test (DUT) boards. In designing the PCB, Dawn utilizes its unique balanced and impedance-matched technology to ensure signal integrity from backplane to DUT board. The connectors used in this product are the more reliable DIN Class II connectors, which provide a much longer service life. Finally, the ejector system contained in the guides make DUT board removal simple, fast and safe.

In all, **Model 3131** offers superior technical performance at a competitive price.

## Front Side of Extender



## Technical Specifications

### Mechanical

**Compatibility:** VMEbus specification IEEE-1014-1987

**PCB Material:** High-temp FR-406 and fully compliant with IPC-4101/26

**PCB Design Construction:** High-performance multilayer microstrip/stripline

**Power and Ground Planes:** 2 oz copper

**Signal Plane:** 1 oz copper

**Weight:** 1.5 lb

### Environmental

**Storage Temperature:** -20°C to +85°C

**Operating Temperature:** 0°C to +50°C

**Humidity:** <95% non-condensing

**MTBF:** >300,000 hr operating at +40°C

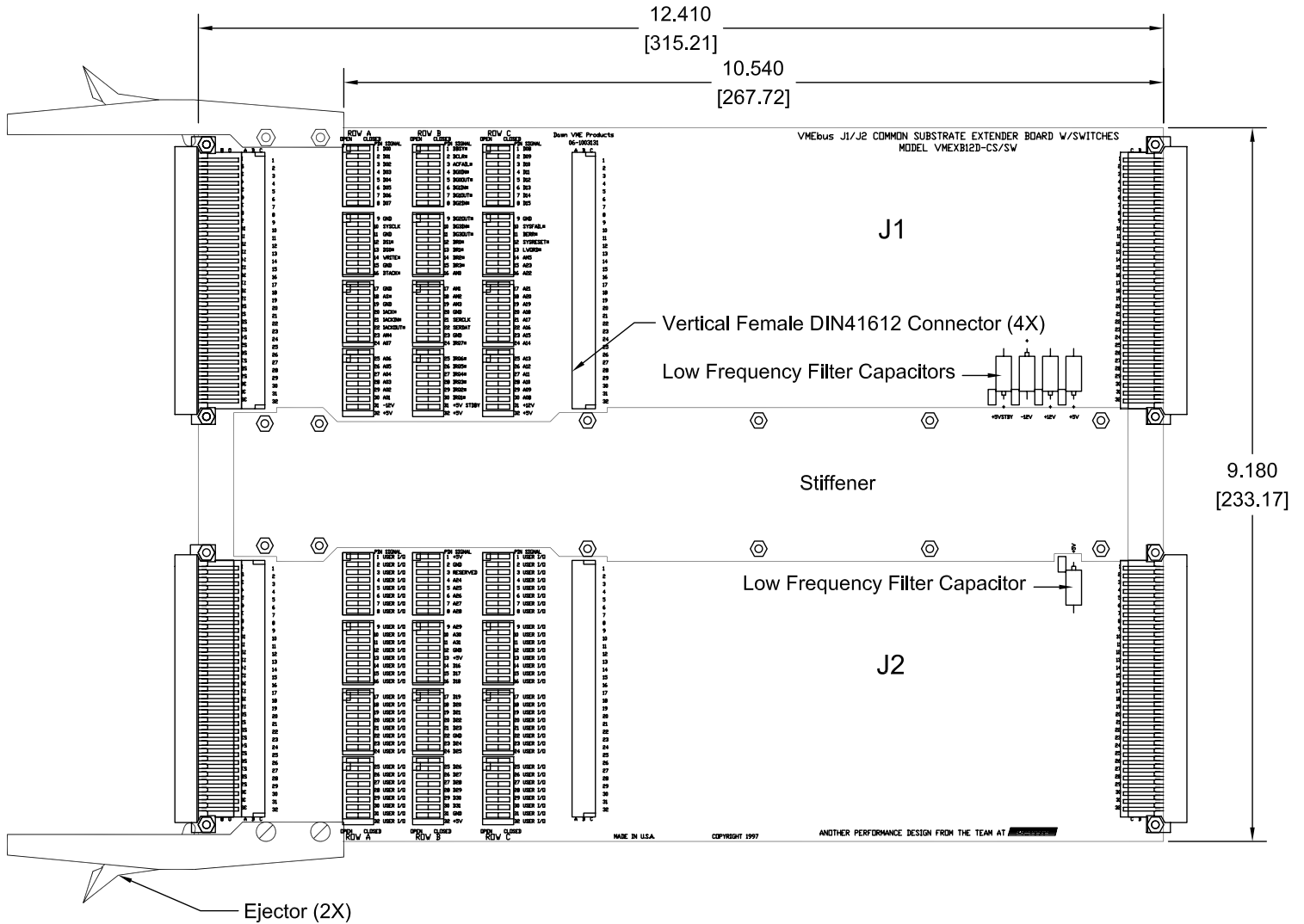
## Additional Products from Dawn

- ◆ System Development Enclosures
- ◆ Powered Enclosures for Production
  - Rackmount
  - Benchtop/Tabletop
  - Portable
- ◆ Test Extender Boards
- ◆ Monolithic Backplanes
- ◆ Front Filler Panel Kits
- ◆ System Health Monitor Kit
- ◆ Overlay Products

# Ordering Information

Ordering Number: 06-1003131

## Front Side of Extender Board



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