

DAV101

COMPACT VGA LINE DRIVER



FEATURES

- **Excellent Video Bandwidth Performance** — Greater than 400 MHz
- **3-Step Peaking Control** — High Frequency Equalization Compensates for up to 150 Feet of IN8000 Series VGA Cable
- **Sync Signal Buffering**
- **Compatible with VGA Signals at Virtually any Resolution / Refresh Rate**
- **Available with External Power Supply or USB Power Cable**
- **Compact Unit** — Packs Easily in Laptop or Projector Case

The DAV101 is a compact VGA line driver designed to amplify the VGA signal from a laptop, desktop or other VGA source. The DAV101 buffers and equalizes the RGB and sync signals so they can be extended down cable runs up to 150 feet or more using high resolution VGA extension cables. Featuring a compact design and weighing just 2 ounces, the DAV101 packs easily into a laptop case, portable data projector case, or technician's tool kit, making it an indispensable tool for mobile presentation systems and rental / staging applications.

Wide Bandwidth

With video bandwidth in excess of 400 MHz, the DAV101 provides ample performance for video signals at virtually any resolution and refresh rate.

Three-Step Peaking Control

The DAV101 peaking circuitry provides high frequency equalization to compensate for the losses that occur in VGA cable runs. A three-step peaking control lets users select the best peaking setting according to their resolution and cable length. The three peaking settings have been optimized for an input signal resolution of 1024x768 and output cable lengths of 3: 50 feet, 75 feet or 150 feet respectively (IN8000 Series High Resolution VGA cable), however the unit provides excellent results with other resolutions and cable lengths.

Sync Buffering

The DAV101 also provides sync signal buffering and automatic gain control to restore sync signals to proper TTL levels. This provides enhanced stability and reliability when sending VGA signals down extended VGA cable runs.

15-Pin HD VGA Input / Output Connectors

The DAV101 offers a 15-Pin HD male input connector that connects directly to a laptop or desktop VGA port (no input cable is required). The output connector is 15-Pin HD female, allowing easy connection to a VGA extension cable. The INLINE IN8000 / IN8000M Series High Resolution VGA cables (available in a variety

of lengths) are recommended for best results with cable runs up to 150 feet or more.

Powering Options

The DAV101 can be ordered with various power supplies to meet application requirements.

- The DAV101-1 US Version features a standard 110VAC power supply with an Edison plug.
- The DAV101-2 World Version features a 100 – 260 VAC switch-mode power supply and an IEC female connector.
- The DAV101-3 USB Version includes the IN9108 USB power cable that connects to the USB port on a computer, laptop or other device with USB ports. The USB power cable version is ideal for portable applications since the computer powers the DAV101 and no local AC power outlet is required.

DAV101 BANDWIDTH PERFORMANCE

DAV101 WITH IN8000 SERIES HIGH RESOLUTION VGA CABLES	PEAKING CONTROL	MEASURED BANDWIDTH
DAV101 with IN8050 VGA Cable (50' long)	Minimum Peaking	280 MHz
DAV101 with IN8075 VGA Cable (75' long)	Medium Peaking	250 MHz
DAV101 with IN8150 VGA Cable (150' long)	Maximum Peaking	132 MHz

SPECIFICATIONS

INPUT

Connector: 15-pin HD male
Signal Format: RGBHV
RGB Signals: RGBHV 1.5 Vp-p max.
Sync Signals: TTL compatible for H & V Sync
Horizontal Sync Range: 15 to 175 KHz
Vertical Sync Range: 30 to 150 Hz

OUTPUT

Connectors: (1) 15-pin HD female
Video Gain: 1.0 (unity)
Peaking Control: 3-Steps — No Peaking / Medium / Maximum
Sync: TTL compatible

GENERAL

Bandwidth: Greater than 400 MHz @ -3 dB with 0.7V p-p input signal
Power Supply: 9 VDC, 500 mA external adapter or USB Power Cable Included
Current Requirements: 100 mA (for USB powered installations, verify that USB Port will provide 100 mA)
Shipping Weight: 1.0 lbs. / 0.5 Kg
Product Weight: 0.1 lbs / 0.04 Kg
Dimensions: 0.95" x 1.68" x 4.77" / 2.4 cm x 4.3 cm x 12.1 cm

Regulatory Approvals:
 UL1950, CAN/CSA-22.2 No.950, Third Edition;
 CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92

INCLUDED ACCESSORIES

DAV101-1: IN9204-1 9VDC, 500 mA Power Supply
DAV101-2: IN9222 100-250VAC Power Supply
DAV101-3: IN9108 USB Power Cable, 2' Long

ORDER INFORMATION

DAV101-1 Compact VGA Line Driver with 3-Step Peaking — USA Version
DAV101-2 Compact VGA Line Driver — World Version

DAV101-3 Compact VGA Line Driver with USB Power Cable
IN8000 Series VGA Extension Cables