



# VT4882DP-DA

Dual 15" Self-Powered  
Subwoofer, Integrated  
Audio System



VERTEC® DP Series System with DPDA (Drive Pack Digital Audio Input Module)

## Application:

The self-powered VT4882DP-DA Dual 15" Subwoofer is designed to deliver high quality sound reinforcement of sub-low frequencies for live music and a variety of other applications. Typical uses include concert audio and multi-media presentations of all types. Ideal companion to VT4888 or VT4888DP-DA midsize three-way systems.

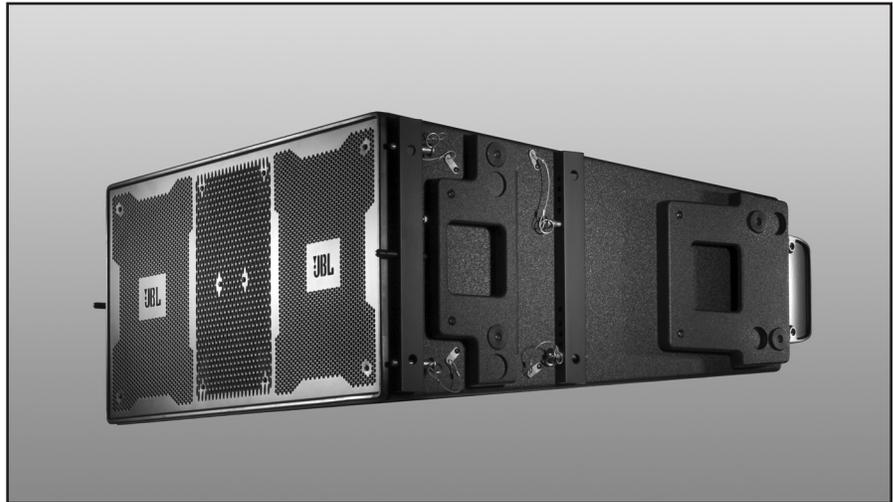
## Key Features:

- ▶ Advanced technology components: Differential Drive®, neodymium magnet, dual voice coil, Direct Cooled™ cone transducers for low weight and high output
- ▶ JBL DrivePack® DP-3 electronics package with robust high efficiency Class-I power
- ▶ Modular bay fitted with DPDA input module; accepts other optional versions
- ▶ World-wide AC line voltages are automatically selected for 50 or 60 Hz
- ▶ Advanced construction techniques using JBL PlyMax™ provide exceptionally rigid, lightweight enclosure construction
- ▶ Rugged DuraFlex™ exterior finish; weatherized components
- ▶ Integrated S.A.F.E.™ suspension system: premium heat-treated alloys provide rigid, reliable hanging arrays

The VT4882DP-DA is a self-powered, lightweight, centrally vented sub-woofer enclosure housing two long extension 15" woofers and a JBL DrivePack™ DP3 fully integrated power and BSS DSP electronics package. The DrivePack DP3, designed in cooperation with Harman Professional development partners, brings to the VERTEC DP Series cutting-edge technologies such as patented high efficiency Class-I power amplifier technology from Crown and BSS Omnidrive HD onboard digital signal processing that gives not only unmatched audio quality and performance but also onboard DSP functionality that communicates readiness and operational status and monitors fault detection of components and electronics.

Advanced 15" LF components, each fitted with dual voice coils, provide high output capabilities with an advantageous power-to-weight ratio. Enclosure features: foam-back perforated steel grille; speaker cones treated with weather-resistant compounds; rigging tubes and hinge bars made from premium-grade alloy aluminum; cadmium-plated hinge pins; stainless steel quick-release pin restraining lanyards; and protective end-caps which safeguard the suspension hardware while allowing vertical stacking of multiple interlocking units.

VT4882DP-DA rigging hardware (same as in the companion midsize VT4888DP-DA full-range system) relies on quick-release pins and end-mounted metal frames to couple adjacent units together in rigid but flexible arrays. Enclosures can also be stacked vertically using the integral end-mounted pads.



## Specifications:

Frequency Response:	32 Hz – 110 Hz (±3 dB)
Frequency Range:	28 Hz – 120 Hz (-10 dB)
Maximum Peak Output:	133 dB SPL, 1m
<b>Transducers</b>	
Low Frequency:	Two 2266H, 381 mm (15 in) dia., 76 mm (3 in) Dual Coil, Differential Drive®, Direct Cooled
Nominal Impedance:	8 Ohms each transducer
<b>System</b>	
DP3 Internal Amplification Output (at nominal load):	3400W Peak, 1700W Continuous
DP3 LF Output Section:	2-Channel Class-I Output at nominal load: 118V peak
Signal Processing:	BSS OmniDrive HD processing provides precision bandpass filters, limiting, pre-equalization filters and automatic self-test functions.
System Management:	LevelMax™ multi-state limiters provide electrical, mechanical and thermal protection
Signal Input:	Analog F-XLR Active 20k Ohms Balanced AES F-XLR, 110 ohms
Signal Loop-Through:	M-XLR (analog pass-through) M-XLR (buffered AES)
Controls:	Via Harman HiQnet System Architect software
AC Power Operating Range:	Auto Select 90-132VAC/216-264VAC, 50/60 Hz
AC Line Voltage:	50/60 Hz, Auto-Detect; 120V / 240V (-15%, +10%)
AC Input Connector:	Neutrik PowerCon
AC Power Loop-thru:	Neutrik PowerCon
AC Current Requirement:	6A per system at 120V, 3A per system at 240V
<b>Enclosure:</b>	
Box Construction:	Wedge frustrum 5 degree side angle enclosure. PlyMax™ engineered composite structure. DuraFlex™ finish
Suspension System:	S.A.F.E. hardware, integral hinge bars nest in rigging tubes on box ends. Quick release pins with restraining lanyards. Suspend with VT4888-AF Array Frame. Set of 4 hinge bars (VT4888-RIG) included with VT4882DP-DA system.
Grille:	Black perforated steel, Foam backed
Dimensions (W x H x D):	1013 mm X 457 mm X 1011 mm (39.9" X 18" X 39.8")
Net Weight:	69.9 kg (154 lb)
Shipping Weight:	85.4 kg (188 lb)

<sup>1</sup>AES Standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long term 100 hr rating are specified for cone transducers.

JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

## INPUT MODULE CHARACTERISTICS AND OPTIONS

### Features

Description	DPDA
	(DrivePack Digital Audio)
HiQNet Compliant	Yes
Network Communication	100MB Ethernet
Internal Switch	Embedded 2 port switch
Network Connections	Ethercon/RJ-45, CAT5/6
Supported Audio format	AES3 Digital, Analog balanced
Level Controls	Network Controllable
Remote Load Monitoring	Yes
User Accessible Delays	Yes
Noise Generator	Pink, White, Sine
Sine Wave Generator	Continuous, Burst
Error Reporting	Yes, via software
Digital Speaker Setting Presets	50, user assignable
Polarity Reverse	Yes, via software
Firmware upgrades via network	Yes
Mute	Remote via Network

### Specifications

Analog Audio Input Connectors	XLR, Female
Input Type	Electronically Balanced, RF Filtered
Signal Loop-through	XLR, male, passive pass-through
Input Impedance	20k Ohms Balanced
AES/EBU Audio Input Connectors	XLR, female & Ethercon/RJ45 for CAT5 UTP Structured Wiring
Input Type	Digitally Balanced
Signal Loop-through	XLR, Male, 110 ohm, buffered Ethercon/RJ45 (labeled as output)
Input Impedance	110 ohms, balanced
Sampling Frequency	Auto sensing, 48 KHz, 96 KHz.
Polarity	(+) voltage on XLR pin 2 yields (+) LF pressure
Max Analog Input Level	+26 dBu RMS / +29 dBu Peak
Max AES/EBU digital Input Level	10 V pk-pk
Frequency Response	20 Hz – 20k Hz ± 0.5 dB
DSP Processing	24 Bit conversion, 32 bit FPP BSS Omnidrive HD with FIR filters, LevelMax Limiting
Latency	Analog 675us AES 48kHz 1.92ms AES 96kHz 1.75ms
Dynamic Range (20-20 KHz)	> 103 dB (A Weighted)
THD+N (20-20 KHz), rated power	< 0.05%
User Programmable Signal Delay	> 2 seconds
Input Module Controls	Enable ALT Preset – Mechanical Encoder for array ID and box position
Rear Panel Indicators	Cross-patch, AES Lock, Fault, Clip, Signal, Thermal, Ready, Data, Alt Preset Select, Network link: In/Out

### JBL DrivePack® Software Device Panel

With HiQnet-compatible input modules installed, JBL DrivePack systems can be remotely controlled and monitored using HiQnet System Architect™ software. A Windows-based application, it provides an intuitive, unified platform for system configuration and operation of JBL DrivePack-equipped systems, and other HiQnet compliant audio devices in the signal chain.

HiQnet System Architect enables the unified layout of on-screen product control surfaces, and simple preset configuration of an entire system made up of HiQnet-compliant products across multiple brands and product classes. Advanced remote control and diagnostic capabilities, custom control panel creation, unified event logging and error reporting for the entire system, and the recall of presets on all connected HiQnet devices are included. In addition, the application enables a user to copy / paste like parameter values from, and to, multiple products across the HiQnet network. Use with current version of HiQnet System Architect network configuration and control software, available for download at [www.harmanpro.com](http://www.harmanpro.com).



## ► VT4882DP-DA Dual 15" Self-Powered Subwoofer, Integrated Audio System

JBL DrivePack® enclosures are equipped with a modular input bay that accepts either DPDA, DPIP, DPAN or DPCN input modules. Speaker-dependent processing such as crossover filtering and component equalization, time alignment and protection are not user-configurable. Options are available for connectivity, audio signal path and control functionality.

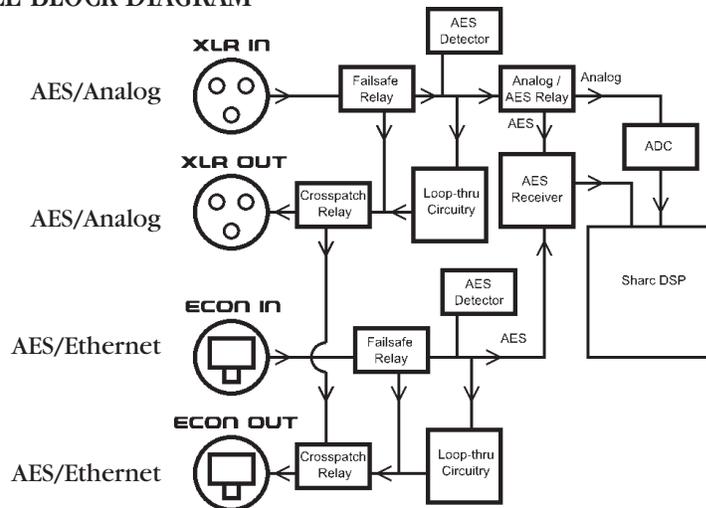
### DPDA (HiQnet Network Input Module with AES Digital Audio)

The DPDA module adds AES/EBU digital audio input capability with analog audio backup, BSS Omnidrive HD digital signal processing and LevelMax multi-stage limiting. Its 100 Mb Ethernet networking (with daisy-chain capability), allows for Remote Control and Monitoring via HiQnet System Architect™ software. A rotary mechanical encoder allows for array identification and box positioning.

Available monitoring functions include: audio input type, AES lock, input signal level, clip and gain reduction; ready / temp status; individual channel load status, signal level, clip and gain reduction; event logging and user alert messaging. Available remote control functions include: input type (analog or AES), input connector (XLR or Ethercon), input level, input polarity and mute; input compressor attack/release, ratio and makeup gain; individual channel gain and mute. Twenty, type-selectable input filters (10 System and 10 Guest filters) are available for system equalization along with user-adjustable input delay of up to 2 seconds and sub filter access (user-adjustable low pass filter for subwoofer systems; high pass filter for full-range systems). Signal generator functions (sine wave, swept tone, pink or white noise) are available to facilitate system testing and up to fifty presets can be stored internally. In addition, Master Control Panels and Master Monitor Panels allow for convenient grouping of control and monitoring functions for multiple DPDA equipped DrivePack enclosures, providing a powerful control/monitoring interface for large format line array or subwoofer systems. See JBL DPDA specification sheet for more information on DPDA input modules.

 HiQnet™

### DPDA INPUT MODULE BLOCK DIAGRAM

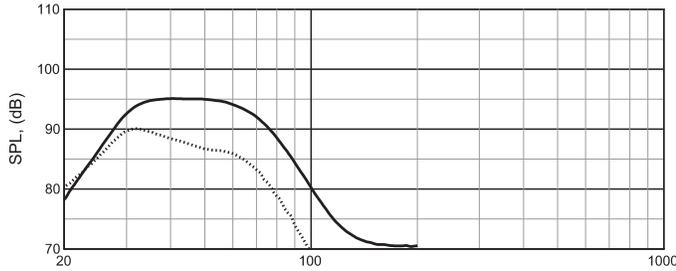


### DPIP (Optional non-networked dbx Input Module with basic functionality)

The standard DPIP input module features analog audio inputs and sophisticated onboard digital signal processing technology. Precision bandpass filtering, limiting, time alignment, component equalization and automatic self-test functions ensure optimized performance. Rear panel controls include a 32-position detented rotary attenuator calibrated in 0.5 dB steps, providing a 16 dB range of control. The “Enable Subwoofer Filter” button is a momentary-contact switch that enables or disables an 80 Hz filter. For subwoofer systems, the low-pass frequency is set to 80 Hz when selected or 100 Hz when deselected. For full-range systems, the high-pass frequency is raised to 80 Hz when the “Enable Subwoofer Filter” button is selected.



## ▶ VT4882DP-DA Dual 15" Self-Powered Subwoofer, Integrated Audio System



Frequency Response of a single VT4882DP-DA (solid line) and with Recommended Signal Processing (dashed line)



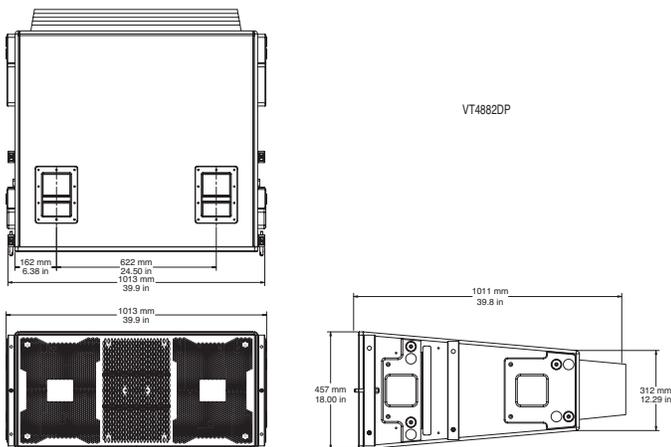
The JBL DrivePack DP3 with DPDA input module attaches to the back panel of a standard VT4882 subwoofer, creating the model VT4882DP-DA. Robust Crown amplification and onboard BSS digital signal processing are combined to create a compact, powerful, integrated audio system.



### VT4882DP-ACC

The VT4882DP-ACC Accessory Kit includes items necessary for the proper transport and protection of the VT4882DP-DA. This accessory kit includes: (1) VT4882-DOLLY and (1) VT4882DP-COVER.

*Important note:* the VT4882DP-ACC is sold as a separate item. One VT4882DP-ACC kit should be ordered with each VT4882DP-DA system to ensure safe and reliable transport of each system in portable use. The VT4882DP-ACC does not include hingebars for box inter-connection; these are integral to, and ship with, the VT4882DP-DA system enclosure. The VT4882DP-DA uses either the VT4888-AF or VT4888-SF for array suspension.



System Dimensions (HxWxD):  
457 mm x 1013 mm x 1011 mm including attached suspension hardware and JBL DrivePack unit.



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