Technical Specifications

Compact... Smart... Multipurpose !

| General | | |
|--|---|--|
| Size | 144 mm x 100 mm x 42 mm – regular 1U, 1/3 of 19" rack | AVDT-BOB-AE4io A |
| Main Power Supply Auxiliary Power Supply | PoE (12W) via "Main" Port +12Vdc ±15% 1A max via 6.4mm lockable DC Jack Plug | CONTRACT 40ore Bresklot Box by Awillian / V V V V V V V V V V V V V V V V V V |
| Storage: Temp / Humidity | - 5°C to 70°C / 0% to 95% (non-condensing) | , 🗖 🔚 💽 o 🗰 🖬 |
| Operating: Temp / Humidity | 0°C to 40°C / 5% to 90% (non-condensing) | Ithin Aubre Tablebar Constant Cons |
| Connectors for version "-AE-" and "-ADE-" | 4x, 6x or 8x 3pts Euroblock connectors (3.81mm pitch) for analog or AES/EBU inputs and outputs 1x 6pts Euroblock connectors (3.81mm pitch) for GPIO (-AEG and ADE- versions only) 2x RJ45 Gigabit connectors "Aux" and "Main" with PoE capability on "Main" connector | |
| Connectors for version "-AS-" and "-ADX-" | 1x SUBD 25 connector for analog inputs and outputs with Yamaha pin-out DB25-XLR M/F (-AS- version only) 1x SUBD 25 connector for GPIO and AES/EBU inputs and outputs with proprietary pin-out (-ADX- version only) 2x XLR Female + 2x XLR Male connectors for analog inputs and outputs on front face (-ADX- version only) 1x Neutrik EtherCon connector "Main" with PoE capability 2x SFP cages to plug up to 2x Gigabit Media convertors Optical Fibber or RJ45 | AVDT-BOB-ASSio A |
| Audio Inputs/Outputs | | |
| Number of Inputs | 2x to 4x analog mic/line or AES/EBU inputs and 4x digital inputs from Dante network | Ishoo kashoo kasho |
| Number of Outputs | 2x to 4x analog or AES/EBU outputs and 4x digital outputs to Dante network | |
| MIC / Line Audio Inputs Technica | nl Specifications (All measures at fs=48kHz & 22Khz BW) | |
| Sampling Frequency | 44.1 kHz / 48 kHz | Dante [*] |
| A/D resolution | 24 bits | |
| Input specification | Balanced MIC/Line inputs on Euroblock or SUBD connectors | |
| Input maximum level | +12 dBu | |
| Analog Gain Range | O to +60 dB (20 values, 3dB step) | |
| Input sensibility | +12 dBu to -48 dBu | |
| Input Impedance | 3.5 kΩ (balanced) | AVDT-BOB |
| E.I.N. @Rs=150Ω G=+60dB | -123 dBu | |
| Dynamic Range | > 97 dB A-weighted | Smart Compact Dante [™] Brea |
| THD+N @1KHz, +6dBu, G=0dB | < -82 dB (0.0079%) | |
| Frequency response | 20Hz – 20kHz (+0 / -1 dB) | MicLine/AES inputs and analog/A |
| Phantom Power | +48 V (individually controllable for each channel) | |
| Line Audio Outputs Technical Sp | ecifications (All measures at fs=48kHz & 22Khz BW) | |
| Sampling Frequency | 44.1 kHz / 48 kHz | High pass filter and equalizations Limiter C |
| A/D resolution | 24 bits | Part Unars Outputs Processing @ Spress Automatic Automatics Automatical Automatics Autom |
| Output specification | Balanced analog outputs on Euroblock or SUBD connectors with $<100\Omega$ impedance | BX DNN Effective Medical (ppur) Egg DnN ED antikal Proj Compares and Mall Compares and Mall Val Graph and Compares and Mall Compares and Mall Compares and Mall |
| Output level at OdBfs | | |
| Frequency response | 20Hz – 20kHz (+0 / -1 dB) | |
| Dynamic Range | >100dB A-weighted | |
| THD+N @1KHz, -6dBFS, G=0dE | < -88 dB (0.004%) | |
| Remote Control Environment | | |
| OS Supported | Web 2.0 Interface compatible HTML5 (iOS, Android, Mac OS, Windows, Linux,) | ² β i i i i i i i i i i i i i i i i i i i |
| References / Part number | | |
| AVDT-BOB-AE4io | 2xRJ45 (1xPOE) and 2x Mic/Line Inputs + 2x Line Outputs on Euroblock | 1000 1000 1000 1000 1000 1000 1000 100 |
| AVDT-BOB-AEG6io | 2xRJ45 (1xPOE) and 2x Mic/Line Inputs + 4x Line Outputs + 4xGPIO on Euroblock | Embedded Mixing and Proc |
| AVDT-BOB-AE8io | 2xRJ45 (1xPOE) and 4x Mic/Line Inputs + 4x Line Outputs on Euroblock | - |
| AVDT-BOB-ADE8io | 2xRJ45 (1xPOE) and 2x Mic/Line Inputs + 2x Line Outputs + 4x GPIO + 1x stereo AES3 Input + 1x stereo AES3 Output on Euroblock | device: PC, Mac, Tablet or |
| AVDT-BOB-AS8io | 1xNeutrik EtherCon (PoE) + 2xSFP cages and 4xMic/Line Inputs + 4xLine Outputs on DSub | Mic/line and Dante input Control M |
| AVDT-BOB-ADX8io | 1xNeutrik EtherCon (PoE) + 2xSFP cages and 1x stereo AES3 Input + 1x stereo AES3 Output + 4xGPIO on DSub on rear side and 2x Mic/Line Inputs + 2x Line Outputs on XLR3 on front side | Data Data Data Data 200 200 700 -0.000 3.000 -0.000 200 200 700 -0.000 3.000 1.000 -0.000 200 200 700 -0.000 3.000 1.000 -0.000 |
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Compressor Noise gate

Scene Load/Save

cessing remotely controlled by any 🗉 🗭 📢 🔕 r Smartphone

Mixing processing



Analog and Dante Outputs Settings



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AVDT-BOB Overview

The AVDT-BOB is a compact multipurpose Dante[™] break out box.

The AVDT-BOB has, depending on the version, 2 or 4 mic / line and 2 or 4 analog outputs and 4 input channels and 4 output channels over Dante.

Embedded Ultimo Dante processor allows to receive from / send to up to 4 channels on a Dante Network, its network connectivity allows to remotely control, monitor any Dante parameters and to be compatible with any Dante software and tools





State-of-the-art analog microphone preamplifiers gives to the AVDT-BOB a very high audio dynamic and guality at a very contained price.

Theses preamplifiers are coupled to high quality analog ladder-step gain controllers that allows to achieve a 60dB gain range, 3dB step, with an Equivalent Input Noise (EIN) as low as 125dBu.

The AVDT-BOB has a DSP to process and mix audio signal at the source and at the output.

A powerful embedded Digital Signal Processor gives to the user the power of high pass filters, parametric equalizations, dynamic compressions and fine-pitch digital gain adjustments.

It also contains a digital mixing matrix that allows to mix analog and Dante channels and route them to any output.



The AVDT-BOB features a dual core ARM processor associated with a large amount of flash memory for a universal and multiplatform remote control over IP (iOS, Android, Windows, Mac OS, Linux),

This RISC processor ARM Cortex M4 M0 runs in the AVDT-BOB a Web 2.0 server for a remote control and monitoring efficient, customizable and user friendly.

The interface uses open standards HTML5 and JavaScript for multi OS compatibility.

This universal interface drives mic/line preamps, digital processing (DSP) and storages / reload of scenes

The AVDT-BOB integrates an internal 5 ports Gigabit switch to ease the cabling, to increase the throughputs and to reduce the latencies.

This gigabit switch links the external Gigabit ports (i.e. 2x RJ45 or 2x SFP modules and an EtherCon depending of part number) with the Dante Ultimo chip and the embedded double core ARM Cortex M4+M0 microcontroller.

This switch guaranties a very low latency between the Dante chip and other Dante devices and allows to Daisy Chained the AVDT-BOB together with other Dante devices without neces sarily requesting any external switch devices.



The AVDT-BOB embeds an internal PoE module for power and communication with a single Ethernet cable.

This PoE module provides up to 12W power through the port Gigabit "Main" of AVDT-BOB suppresses the need of feeding locally external power supply and allows a single Ethernet cable for communication and power supply.

The AVDT-BOB additionally incorporates a redundant power management and features a lockable 6.4mm Jack connector for a standard 12V

DC external power supply.

Native extension connectors on the AVDT-BOB Mother Board allows to add various functionalities thanks to a panel of Daughter Boards.

Extension boards are available to extend the AVDT-BOB capabilities. Existing extension cards are: 2x analog cards with 2x Mic/Line and 2x analog out on EuroBlock or on SubD connectors and 2x digital cards with AES/EBU and GPIOs The hardware is ready for quick design of new interfaces or for specific requests



The AVDT-BOB box is made of a very lightweight, robust and smart extruded aluminum.

This box was designed to bring to the user many mounting options, thanks to side rails that allows to attach any type of fixations

The AVDT-BOB is delivered with side ears that can be mounted in any positions.

An optional mounting kit allow to interconnect up to 3x AVDT-BOB devices and so to build a Dante unit with 12x Mic/Line inputs and 12 analog outputs in the only space of a 1U 19" rack

AVDT-BOB Digital Signal Processing Overview

The AVDT-BOB manages 2 kinds of inputs and 2 kinds of outputs:

- 2 to 4 inputs "Mic/Line" or "Digital" are coming from the Mic/Line In or AES/EBU connectors
- 4 Dante network inputs are available through the Gigabit Ethernet Main or Aux ports.
- 2 to 4 outputs "Analog" or "Digital" are sent to the Line Out or AES/EBU connectors.
- 4 Dante network outputs are sent through the Gigabit Ethernet Main or Aux ports.

The AVDT-BOB DSP is divided in 3 main processing blocks interconnected:

- The Input processing block
- The Mixing processing block
- The Output Processing block



The Mixing Processing block manages 4 independent Master mixers that are sent to the Output Processing Block

Each Master mixer can mix up to 8 inputs (i.e. the Mic/ Line or Digital and the Dante processed inputs) via individual faders controlling the input mixing gains.

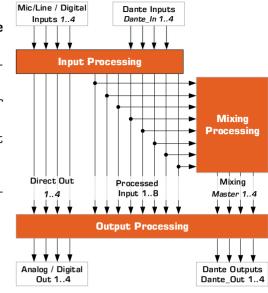
Each input of a Master mixer can be enabled or muted.

Each mixer has an Master fader controlling the Master mixer output level.



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The Input Processing block manages up to 4 Mic/Line or digital inputs and 4 Dante inputs. It delivers 4 Direct Out (just after preamp gain or phase inverter process) and 8 processed inputs that are sent to the Mixing Processing and to the Output Processing:

4x Equalizations plus Limiter Compressor plus Noise gate processing can be assigned to 4 inputs (i.e. Mic/Line or Dante inputs).

8x faders allow to manage the Mic/Line preamp gains or digital Dante input gains.

Each input can be enabled or muted and inverted.

48V Phantom power can be set individually to any Mic/ Line input.



| t. | Inputs | • | Mixers | Outputs | Pro | cessing (| Sce Defa | | AuviTran |
|----|------------|----------|--------------|------------|------------|------------|-------------|------------|--------------|
| L | Mixer 1 | Mixer 2 | Mixer 3 | Mixer 4 | | | | | |
| g | -17.3dB | -6.8dB | -9.8dB | -26.4dB | -16.4dB | -9dB | -6.5dB | -3.3dB | -11dB |
| | ON | ON | ON | ON | ON | ON | ON | ON | ON |
| , | Mixir | ng Pri | ocessi | ng∘ _ | • – | ° – | • — | 0 - | • _ |
| / | -6 — | -6 | 6 | -6 — | -6 - | -6 | -6 | -6 | -6 — |
| - | -12 - | -12 | -12 | -12 - | -12 - | -12 | -12 | -12 | -12 |
| | -18 | -18 - | -18 | -18 | -18 | -18 🖵 | -18 – | -18 – | -18 🜉 |
| | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 | -24 |
| | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -30 | -30 |
| r | -40 — | -40 - | 40 — | -40 — | -40 — | -40 — | -40 — | -40 — | -40 — |
| | -50 — | -50 - | 50 - | -50 — | -50 — | -50 — | -50 — | -50 — | -50 — |
| | -60 — | -60 - | 60 — | -60 — | -60 — | -60 — | -60 — | -60 — | -60 — |
| | -70 — | -70 _ | 70 _ | -70 — | -70 — | -70 — | -70 — | -70 — | -70 — |
| | -80 | -80 _ | 80 - | -80 | -80 | -80 — | -80 — | -80 — | -80 _ |
| | Mic/Line 1 | Mic/Line | 2 Mic/Line 3 | Mic/Line 4 | Dante In 1 | Dante In 2 | Dante In 3 | Dante In 4 | Master mix 4 |
| | Input 1 | Input 2 | Input 3 | Input 4 | Input 5 | Input 6 | Input 7 | Input 8 | Mixer 1 |

The Output processing block manages up to 4 analog or digital outputs and the 4 Dante outputs.

The source of any output can be selected between one of the 4 DirectOut or the 4 processed inputs (Mic/line, AES/EBU or Dante) or the 4 Master mixers.

4x Equalizations plus Limiter Compressor plus Noise gate processing are available on the 4 analog outputs.

8x faders allow to manage the output gains.

Each output can be enabled or muted.