

# Spec Sheet

## AC 26N



Digital Audio Controller for  
Loudspeakers Processing



### Applications

- Live sound for rental application
- Portable PA, ballrooms, live theatre
- Fixed installations in clubs, theaters
- House of worship and corporate A/V professionals

### Features

- 28/56 bit DSP processing
- Parametric EQ, Delay, Phase, Compressor/ Limiter, Level control
- 24 bit - 96 kHz AD/DA Converters
- 2 Balanced INs x 6 Balanced OUTs with flexible routing
- 2 x AES/EBU INs and 2 x AES/EBU OUTs
- RDNET hardware interface
- Front panel or USB / RDNET remotable using dBTechnologies software

### Description

The new audio digital processor AC26N has been designed for fixed and touring installations, and allows you to control any professional audio system.

Thanks to the quality of converters, the powerful processing and the compatibility with RDNET remote control protocol, the AC26N is an extremely versatile tool that allows you to manage in real-time active and passive systems or act as a matrix for a loudspeaker system managing, solving tons of issues typical of live music applications.

It uses the most modern technology with 28/56 bit processors and high performance 24 bits -

96 kHz AD/DA converters.

The functions available are: input and output levels, delay, polarity, 12 equalization bands for each input and output channel, multiple crossover and high performance limiter/compressor.

The control resolution of the filters is 1Hz. Inputs and outputs can be set according to many configurations to meet any need.

AC26N can be controlled in real time and all its parameters can be edited on its front panel or through a computer, thanks to the intuitive graphic interface of the DVA Network software and a dedicated RDNET or USB network connection.

The CPU and DSP software update, via PC, allows to keep the device up to date. It is possible to save and recall 32 preset configurations.

The AC26N can be remotely controlled using a pc-based software. Communication can be preformed using USB cable or connecting the AC26N into complex RDNET networks via Control 2 or Control 8 RDNET Hub.

This proprietary communication protocol has been developed for receiving and sending data. This connection allows real-time monitoring of loudspeaker parameters, such as output power, amp temperature, limiter status, etc...

It is also possible to select different equalizations or create new ones, set the desired volume levels using the specific plug-in.

It is recommended to download DVA Network free software directly from dB Technologies website ([www.dbtechnologies.com](http://www.dbtechnologies.com)), in the special section DOWNLOAD «Software & Controller».

# AC 26N

## Technical Specifications

### Audio Performance

|                     |                         |
|---------------------|-------------------------|
| Frequency Response: | +/- 0.1dB (20 to 30kHz) |
| Dynamic Range:      | 116dB typ               |
| CMMR:               | > 60dB (50 to 10kHz)    |
| Crosstalk:          | < -100dB                |
| Distortion:         | 0.002% (1kHz @+4dBu)    |

### Digital Audio Performance

|                            |                   |
|----------------------------|-------------------|
| Processor:                 | DSP 28/56-bit     |
| Data processing Frequency: | 24-bit BURR BROWN |
| Analog converters:         | 24-bit BURR BROWN |
| Propagation Delay:         | 1.5ms             |
| Storing configurations:    | 32 presets        |

### Controls

|                  |  |
|------------------|--|
| Display:         | graphic LCD                              |
| Buttons/Controls | ESC - MENU - FUNCTIONS SELECTION - ENTER |

### Inputs / Outputs

|                         |   |
|-------------------------|---|
| Analog Inputs / Outputs | n°2 x XLR (3 pole female) / n°6 x XLR (3 pole male)         |
| Digital Input           | n°1 x XLR (3 pole female) - SPDIF-AES/EBU (AES3)            |
| Digital Output          | n°1 x XLR (3 pole male) - Compliant with the input standard |
| RDnet Inputs/Output     | n°2 x XLR RJ45 (CAT 5 cable)                                |
| USB                     | B-Type  |

### Sound Control Parameters

|                       |                             |
|-----------------------|-----------------------------|
| Gain                  | -80dB to +20dB (step 0.1dB) |
| Delay Input / Outputs | 0 to 72.9ms (step 0.1 ms)   |
| Phase Rotation        | 0° - 180°                   |

### Compression

|              |                            |
|--------------|----------------------------|
| Threshold    | -80dB a +20dB (step 0.1dB) |
| Ratio        | 1:1 to Inf:1 (step 0.01)   |
| Output gain  | 0dB to 40dB (step 0.1dB)   |
| Attack time  | 1mS to 1000mS (step 0.1mS) |
| Release time | 1mS to 1000mS (step 0.1mS) |
| Hold time    | 1mS to 1000mS (step 0.1mS) |

### Equalizers

|   |   |
|---|---|
| 12 equalizers for each input and output |   |
| Type:                                   | PEQ (parametric), Hi-shelf, Lo-shelf        |
| Frequency                               | 20Hz to 20KHz (step 1Hz)                    |
| Gain                                    | -30dB to +15dB (step 0.01dB)                |
| Band                                    | 0.05dB to 2dB (step 0.01dB) - only with PEQ |

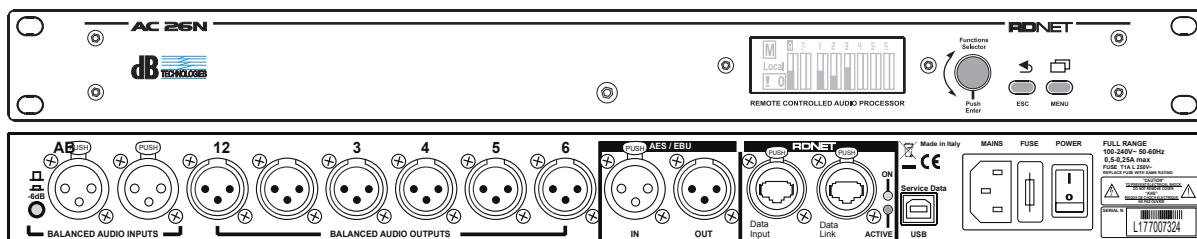
### Crossover Filters

|                   |   |
|-------------------|---|
| Filter            | Linkwitz Riley,                                 |
| Type:             | HP High-pass, LP Low-pass                       |
| Slope             | 12dB/oct - 24dB/oct - 48dB/oct                  |
| Cut-Off Frequency | 5Hz to 20KHz (step of 1Hz)                      |
| Power Supply      | Full-range 100-240Vac / 50-60Hz                 |
| Dimension (WxHxD) | 430/482 x 43 x 130 mm - 17/19 x 1.7 x 5.1 inch. |
| Weight            | 1.9Kg - 4.2 lbs.                                |

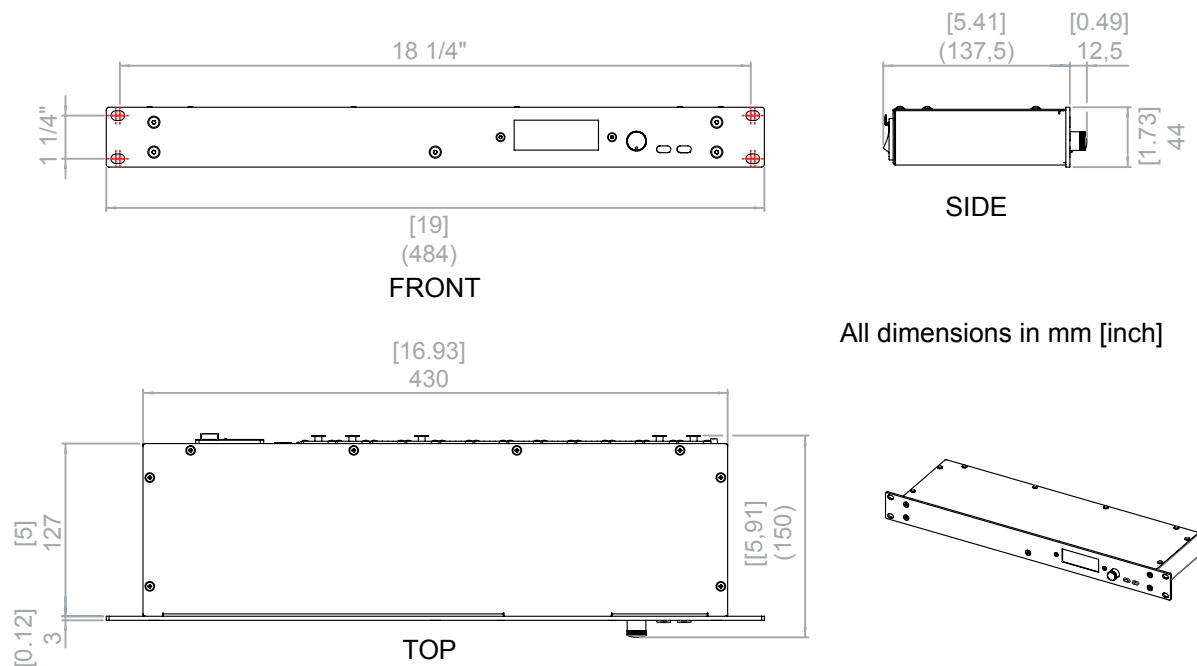
# AC 26N

## Technical Specifications

### Front / Rear Panels



### Overall Dimensions



### Accessories

|               |   |
|---------------|---|
| RJ45-RJ45-75  | RJ45-RJ45 link cable (75cm) for RDNet-equipped devices  |
| RJ45-RJ45-150 | RJ45-RJ45 link cable (150cm) for RDNet-equipped devices |
| RDC-45F       | RJ45 to XLR 3 poles female conversion cable (6 cm)      |
| RDC-45M       | RJ45 to XLR 3 poles male conversion cable (6 cm)        |

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dBTechnologies products are continually improved. All specifications are therefore subject to change without notice.