

DIGITAL AUDIO DSP PROCESSOR & MULTI-ROOM SOUND SYSTEM



WALL MOUNT TOUCH SCREEN CONTROLLER

RWD-AIO

The RWD-AIO is a wall-mount remote controller which comes with a 2.2" TFT touch screen, a RCA stereo input/output connector and a XLR connector for mic input on the front panel. The RWD-AIO is powered via STP CAT5/6/7 cable with metal shielded RJ45 connector in a max. distance length of 820 ft/250m through OCTO-Link. If the control signal of RWD-AIO is not strong enough, the RWD-AIO can connect to DLR01 Digital Loop Repeater. And if the power of RWD-AIO units is not enough, the RWD-AIO can connect to a 24VDC local power supply.

The RWD-AIO is designed as easy to use remote controller, the touch panel allows for various function controls such as parameter control, logic control, volume control, message play, dynamic GUI status display, VoIP call etc., and this can be easily programmed by OCTO Jr Designer software.

The 4 CH input and 4 CH output OCTO-Link card installed in OCTO Jr (E-slot only) allows the RWD devices to be connected for the benefits with different kinds of applications. One RWD-AIO can also be connected to OL-AMP (Low-Z digital amplifier) at the end of the bus via OCTO-Link.

In addition, the RWD-AIO also comes with a IR receiver built-in for user to control the unit without standing in front of the machines. All of these devices can be integrated into our life and create a truly smart homes/offices.

FEATURES

- Various controls and adjustment via 2.2" LCD touch panel
- Dynamic control function for logic, volume, message play, status display
- Connect up to 2 RWD-AIO per OCTO Jr, or connect the RWD-AIO to OL-AMP (Low-Z digital amplifier) at the end of the bus
- OCTO-Link connection via STP CAT5/6/7 cable with metal shielded RJ45 connector
- RCA stereo line input and line output and 1 XLR mic input on the front panel
- Control functions can be programmed by OCTO Jr Designer software
- RS485 for 3rd party control



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RWD-AIO

Electrical

Power consumption	4.11W
OCTO-Link port	24 VDC @ 0.2A maximum

Audio characteristics

Frequency response	20 ~ 20 kHz (± 1 dBu)
THD+N	< 0.015 % @ 12 dB gain, -6 dBu (1 kHz) in
A/D-D/A bit resolution	24 bit
Sampling rate	48 kHz
EIN (XLR)	< -120 dBra @ 42 dB gain
EIN (RCA)	< -80 dBra @ 0 dB gain
Dynamic range	> 98 dBu @ 24 dBu gain
Crosstalk	< -70 dB @ 0 dBu gain, 0 dBu in
CMRR	< -75 dBu @ 1 kHz
Maximum input level	-6 dBu
Maximum output level	6 dBu
Maximum gain	60 dBu
Input impedance (balanced)	5k ohm
Input impedance (unbalanced)	12k ohm
Input gain range (mic)	12 ~ 60 dB (1 dB per step)
Input gain range (line)	-12 ~ 12 dB (1 dB per step)
Output impedance (unbalanced)	20 ohm
Phantom power	24 VDC, 15 mA

Network (OCTO-Link)

Max. distance between units	STP CAT5/6/7 with metal shielded RJ45 connector (250 m/820 ft)
Max. RWD-AIO units	2 RWD-AIO per OCTO Jr

Front panel

RCA stereo line input and line output
1 3-pin XLR mic input (include 24V phantom power)
2.2" LCD touch panel
2 button (home page/down page)
1 sensor to automatically adjust the screen brightness
1 power communication LED
Line in LED, line out LED, mic in LED
IR receiver LED

Rear panel

24 VDC power input (5 watts)
1 OCTO-Link port (RJ45)
RS485 for 3rd party control
Euro-block output

Mechanical

Dimension (W x H x W)	5.3" x 1.5" x 3" (140 x 106 x 40 mm)
Weight	1.1 lbs (0.4 kg)

Color

Front panel	Metal gray
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Environmental

Operating temperature	23 °F ~ 131 °F (-5 °C ~ 55 °C)
Storage temperature	-40 °F ~ 158 °F (-40 °C ~ 70 °C)
Relative humidity	20 % to 95 % non-condensing

Certification

CE marked and RoHS compliant

Ordering information

RWD-AIO: Wall Mount Touch Screen Controller