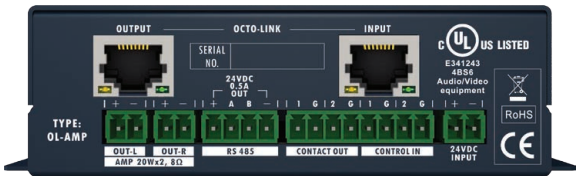


LOW-Z DIGITAL AMPLIFIER

OL-AMP

The OL-AMP is equipped with 2 amplifier output channels (max. 20W output power/each), 2 control inputs and 2 contact outputs, RS485 for external remote control, 24VDC power input and two RJ45 OCTO-Link connectors for cascading with up to 16 OL-AMP units or one RWD device/DGL-MIC microphone at the end of the bus.

Each OCTO-Link port provides 2 audio channel inputs and 2 audio channel outputs which simultaneously transmits bidirectional data communication in digital format. The connection of OCTO-Link can be easily connected through STP CAT5/6/7 cable with metal shielded RJ45 connector in a max. distance length of 820 ft/250m. The OL-AMP also has all necessary protection circuits to detect the issue of overload or overheat and protect the device against all potential hazards. If the control signal of OL-AMP is not strong enough, the OL-AMP can connect to DLR01 Digital Loop Repeater. And if the power of OL-AMP units is not enough, the OL-AMP can connect to a 24 VDC local power supply.



Electrical	
DC power input	24 VDC
Maximum charging current	2.7A
Power consumption	Full power: 20W Normal continues: 15W
Rated loaded capacitance	680 nf
Audio characteristics	
Frequency response	20 ~ 20 kHz (± 3 dB)
THD+N	< 0.1% @ 24 dBu gain, 0 dBu (1 kHz) in
A/D-D/A bit resolution	24 bit
Sampling rate	48 kHz
SNR	> 94 dB
Dynamic range	>108 dBu @ 24 dBu gain
Crosstalk	<-50dB @ 24 dBu gain, 0 dBu in
Network (OCTO-Link)	
Max. distance between units	STP CAT5/6/7 with metal shielded RJ45 connector (250 m/820 ft)
Max. OL-AMP units	16 OL-AMP or one RWD/DGL-MIC device at the end of bus

Front panel	
Power LED and Status LED	
Rear panel	
2 amplifier output channels (20W x 2CH)	
2 OCTO-Link ports to connect to RWD/DGL-MIC or next OL-AMP	
RS485 for 3rd party control	
2 channel control inputs and 2 channel contact outputs	
24VDC power input (50 watts)	
Mechanical	
Dimension (W x H x D)	4.4" x 1.5" x 3" (112 x 37 x 76.2 mm)
Weight	1.1 lbs (0.5 kg)
Color	
PANTONE 7546C	
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	
OL-AMP220: Low-Z Digital Amplifier/2CHx20W/RJ45	

