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C4-16AMP3-B 16 Channel Amplifier Functional Description

The C4-16AMP3-B 16 Channel Amplifier is a microprocessor controlled 16 channel class D audio amplifier intended for use in home audio applications. The device is housed in a 3 RU 17 inch metal, rack mountable, chassis and is powered by a universal (90-250 VAC 50/60Hz) power supply. There are 16 analog line level inputs and 16 class D amplified outputs rated at 100 watts per channel. An integrated full cross point audio switch allow any of the 16 inputs to be routed to any or all of the outputs. The C4-16AMP3-B also has 10/100 BaseT Ethernet and 802.15.4 Zigbee network communications capabilities. All of the amplifiers settings are controllable through the network connections making this amplifier useful in full home automation installations. Full control over channel volume, tone control, and input to output routing are controlled over either or both zigbee (802.15.4) or TCP/IP over Ethernet communications. Users may also control the amplifier via the LCD graphic front panel, soft buttons and an encoder wheel. The C4-16AMP3-B has audio sensing circuits on all inputs making it possible to trigger home automation sequences when audio sources begin to play.