DIGITAL NETWORKED MIC JUNCTION BOX   DDB104
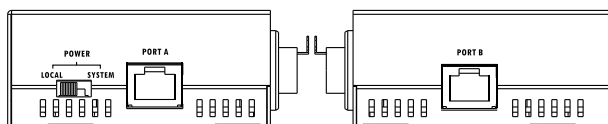
DDB104 OVERVIEW

The DDB104 Mic Junction Box is the heart of the digital 64 channel audio network of Senator system, it connects to the CDM-Net-Loop card equipped in the DCP1000 processor. With the 2 connection ports on the two side of DDB104, the redundant network loop which used with Xavnet can be achieved for the highest safety demand in case of cable disconnection. The 4 mini XLR connections on rear side of DDB104 are used to connect up to 4 delegate units(CDM1000, CDM-T5 etc.), and up to 63 DDB104 boxes can be cascaded to a single CDM-Net-Loop card placed in the DCP1000 processor.
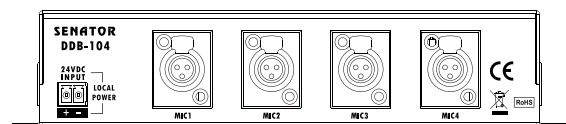
The cable connection of DDB014 can use either CAT5/6, Fiber Optic(Multi Mode and Single Mode) or even with one of each per side, allowing flexible system setup and distance capability among several rooms. The DDB104 can either be powered via the CDM-Net-Loop cables(audio, data and power supply) or be powered with an external PSU.

FEATURES

• Connect up to 63 DDB104 in one CDM-Net-Loop card

• 2 CDM-Net-Loop is possible in one DCP1000 processor

• 4 XLR microphone connectors to connect to delegate units

• 2 types of CDM-Net-Loop connection: CAT5 up to 328 ft(100M) or Fiber Optic(Multi Mode or Single Mode) up to 6561 ft(2000M)

• LED signal for indication of CDM-Net-Loop status

Side Panel

Rear Panel

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ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The DCP1000 is the digital DSP controller of the Senator system. It has 2 CDM-Net-Loop card slots: One card is on board, and the other optional card can expand the system to 2 redundant loops for up to 504 Delegate Units, connecting thru the DDB104 digital Mic Junction Box via CAT5/6 or Fiber Optic cables. Using the digital link(MDA) between DCP1000 and DCA660 distribution amplifiers allows to cascade up to 64 units via CAT5/6. The DCP1000 supports multiple interfaces like USB2.0 connector(recording), XLR balanced line In/Out, RCA stereo line In/Out, RS485, RS232 and an RJ45 Etherne t port. Audio recording, 3rd party control, even controlling PTZ cameras can be easily handled.

In addition, the DCP1000 processor integrates the DSP functions such as Voice Activated Gate, AEC, PEQ, AGC, Feedback Suppressor, Hi/Lo Pass Filter. Each of them can be adjusted, stored and processed individually for every connected microphone. Moreover, with the optional AEC Card(Acoustical Echo Cancellation) installed, the Senator system is capable to use VoIP and SIP functionality for distance and web-conferencing applications. The outstanding function of Auto-Mix-Minus calibration in conjunction with the DCA660 amplifier makes the Senator system a very unique and ease of use and setup. Multi-purpose conference, presentation, meeting, distance and web-conferencing system will all functions and fully integrated.

Electrical	
Local power	24 VDC, 3.81 mm Euro-Block
Power consumption	230 mA, 5.5W
Maximum supply*	6A
Front Panel	
Four active mic channel LEDs	
2 mic link LED for CDM-Net Loop	
A Power LED	
Side Panel	
2 types of interface for CDM-Net-Loop:	
RJ45 connector+ powerpole connector(24 VDC)	
Fiber optic connector+ powerpole connector(24 VDC)	
Rear Panel	
24 VDC, 3.81 mm Euro-block connector for external power supply	
4 mini-XLR connector for microphones	
Maximum cable length	
328 ft(100M) for CAT5	
6561 ft(2000M) for Fiber Optic	

Dimension & Weight	
Width	3.6"(92 mm)
Depth	6.9"(175 mm)
Height	1.5"(37mm)
Weight	3.1 lbs(1.4 kg)
Color	
PANTONE 7546C	
Environment	
Operating temperature	23ºF ~ 131ºF(-5ºC ~ 55ºC)
Storage temperature	-40°F ~ 158°F(-40°C ~ 70°C)
Relative humidity	5 % ~ 70 % noncondensing
Certifications	
CE marked, UL listed, RoHs compliant	

* Normally, the power of DDB104 mic junction box is supplied by processor, but if large amounts of DDB104 boxes are connected, the external power supply will be necessary. However, the maximum current for CDM-Net is 6A.