



The Auditel IDN conference system offers digital microphone control using single cable loopthrough connections, providing the highest possible quality audio output suitable for broadcast applications and with the option of digital audio input and output. The basic system can be used without operator control, or in conjunction with a conventional push button control console, or a personal computer running Auditel's own specially written software. The latter makes full use of the Microsoft Windows™ Graphical User Interface to facilitate microphone management using the mouse and/or a touchscreen. Data exchange with other Windows™ applications is also possible. The system includes options for automatic image projection using colour cameras.

The Network Controller provides the power, digital interface and audio processing electronics for the IDN delegate microphone and voting units.

Two versions are available - the NC50 can power up to 50 delegate units, and the NC100 up to 100 (these capacities are doubled if the delegate units do not incorporate loudspeakers). Apart from this, the two versions are identical.

The system can be expanded to several thousand units with the addition of further controllers and auxiliary power supplies.

The NC-50/100 are 19" rack mounting units (height 2U). A case is also available (C50) to enable the controller to be used as a free-standing unit.

The NC-50/100 can be used with delegate microphone units to provide a delegate controlled discussion system. The controller has two external control ports that allow this basic system to be extended to provide central microphone switching by connecting one or two CPM401/2 or MIMIC consoles. Many additional facilities, including voting and card reading, can be provided by connecting a PC running Auditel's own ACCSS control software. It is also possible to connect both a PC and a switching console, and have them working in parallel.

CONTROL FACILITIES

The control modes are set via a front panel LCD display and pushbutton switches with indicators, and the settings are stored in non-volatile memory. The background diagnostic function continuously scans the network and gives an alert if any faults occur.

In delegate control mode the maximum number of live microphones allowed can be pre-set from 1 to 16. The system can also be operated in FIFO mode where requests are stored in sequence once the limit has been reached, and the next one is automatically activated when one of the live microphones is cancelled.

There are facilities for implementing adjacent loudspeaker muting, and to re-map the delegate unit addresses.

AUDIO FACILITIES

The NC50/100 audio facilities are very flexible and comprehensive. The primary audio input is provided by the delegate unit network. The gain is automatically controlled according to the number of live microphones so as to inhibit acoustic feedback.

There are two general-purpose balanced audio inputs, with selectable sensitivity and provision for phantom power, for use with auxiliary or radio microphones. These inputs have front panel level controls and indicators, and four selectable gating options.

The various inputs are mixed to form the main composite floor channel. This signal is made available on two balanced line level outputs for connection to external equipment. There is a balanced line level PA output with associated front panel level control and indicator. The PA channel incorporates adjustable low and high cut-off filters, and there is provision for an optional Frequency Shifter feedback suppression module to be fitted within the unit.

In addition, there is a separate input for the delegate loudspeakers, an output for an interpretation system and a tape I/O connector.

MONITORING

The inbuilt monitor loudspeaker has a level control and can be automatically muted if a headset is plugged in. There is also an output for an external monitoring amplifier/loudspeaker combination. A socket on the front panel enables a combination mic/headset to be connected to provide monitoring and talkback facilities.

DIGITAL AUDIO

The NC50/100 can be supplied with an optional AES/EBU digital input/output interface for direct connection to professional high-quality digital audio equipment.

TECHNICAL DATA

(Delegate Mic. Input To Network Controller Output)

Frequency response	125Hz–25kHz (-3dB)
Distortion at 1kHz	0.1% max.
S:N Ratio at 1mV input	Better than 68dB
Audio input	0dB nominal (775mV RMS)
Input impedance	20k Ohms (balanced)
Audio output	0dB nominal (775mV RMS)
Output impedance	600 Ohms
Power consumption	350VA [550VA]
Power Supply	115/230 VAC 50/60 Hz
Dimensions	485x90x460mm
Weight	10kg [11kg]

[Figures in square brackets refer to NC100]

DIGITAL AUDIO OPTION

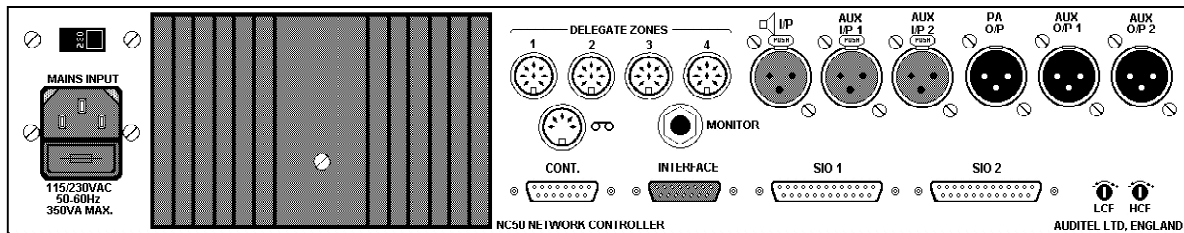
The NC50 and NC100 can be supplied with AES/EBU format digital audio input and output utilising IEC 60958, EIAJ CP1201 compliant transceivers.

No. Digital inputs	1
No. Digital outputs	1
Digital format	AES/EBU
Resolution	24 bit
Sample Rates	48kHz or 44.1kHz

Standard digital option fitted is AES/EBU format input/output 110 Ohm balanced transformer coupled. Factory adjustable sample rate.

Alternative digital option available 75 Ohm single ended transformer coupled input/output - factory set.

REAR PANEL



Architects and Engineers specification

The Network Controller shall be a 19" rack mounting unit that can control up to 999 delegate microphone/voting units and have a power supply for up to 50 (NC50) or 100 (NC100) delegate units with loudspeakers. It shall have connections for four zones of delegate units and two control units, capable of operating in parallel. There shall also be two balanced auxiliary inputs with adjustable sensitivity, and four line level audio outputs. The frequency response of the system from the delegate unit microphone input to the controller audio output shall be at least 125Hz–25kHz (-3dB), distortion at 1kHz not more than 0.1% and the S:N ratio not less than 68dB re. 1mV input.

We reserve the right to vary the specification without notice in the interest of product improvement



conference and interpretation systems

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