

Nova17



Whether on-air, production or theatre – Nova17 is the real solution for small to medium-sized structures. Its capacity and quality meets all professional requirements.

Nova17 is designed as a universal audio router that can be employed in a very flexible way. For signal distribution, as well as a format converter or as a MADi breakout – as required.

It is possible to have as many as 128 inputs and 128 outputs (mono) within this modular and extremely compact router. The interfaces are designed as plug-in cards to be inserted directly into the system rack according to the requirements. Optionally, MADi interfaces provide up to 256 additional channels, e. g. for cross-connections to mixing consoles, other matrices or break-out boxes, etc.

One central master board performs the routing and the signal processing and includes the interfaces for control and servicing. Software for the fundamental control of the matrix as well as the creation and management of configurations is included.

Interfaces

Nova17 is based on the proven interfacing DALLIS system and utilises its constantly growing range of interfacing boards:

- Analogue Mic/Line
- Headphones
- AES/EBU (AES3), opt. with sampling rate converter
- HD/SD SDI (embedded audio)
- ADAT®
- Serial routing (RS232, RS422, MIDI)
- GPIO (Opto, Relays and VCA)

The formats are available in different variants. The central master board is equipped with up to four optional MADi interfaces if required. All components are compatible with the professional Lawo mixing consoles and matrices for broadcast and production.



Router

The powerful routing matrix of the board card allows the control of all channels individually and with each other. This allows mono routing also for AES/EBU interfaces. Furthermore, gain setting or time-related switching are only some of the performance features that distinguish the Nova17 from an ordinary matrix.

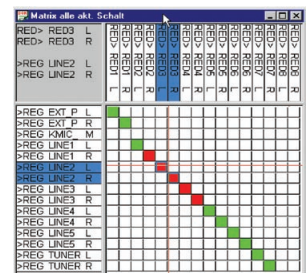


TECHNICAL DETAILS

- 19" mounting frame with 3 RU or 6 RU
- Masterboard with controller and router, optional with
 - 1 MADi interface (optical MMF 62,5/125µm)
 - 4 MADi interfaces (optical MMF 62,5/125µm)
- 18 slots for I/O cards (16 thereof for audio I/Os)
- Wide range of plug-in cards: analogue Mic/Line, headphones, AES/EBU (AES3) opt. with sampling rate converter, HD/SD SDI (embedded audio), serial routing (RS232, RS422, MIDI), GPIO (Opto, Relays and VCA)
- Integrated signal processing
- Sampling rate of 48 kHz or 44.1 kHz (depending on masterboard type)
- Synchronisation via word clock, MADi or internal generator
- Control via Ethernet TCP/IP, RS422 and CAN-Bus
- Software for operation and configuration included in delivery (system requirements: IBM compatible PC with Windows 2000/XP™, Ethernet connection)
- Optionally redundant master card
- Optionally redundant power supply unit
- Operating voltage 100V...240V AC/48Hz...62Hz

The matrix is controlled via Ethernet, serial interface, or CAN bus. Operating devices like keyboards or rotary controls can be connected directly to the central unit. In addition, the software VisTool can be provided to be used as a touchscreen operating surface. For integrating third-party controllers the router supports protocols such as NTP. Nova17 can also be run together with a radio automation system.

The central unit can be designed redundantly.



Synchronisation

Nova17 works with sampling rates of 48 kHz or 44.1 kHz (depending on board type). The system can be synchronised either by using a word clock input (BNC) or via MADI. If no external synchronisation is supplied the internal generator takes over. In addition, the clock output allows synchronising connected devices via word clock.

Service

A software configuration surface allows the system to adapt and be extremely flexible to its environment. General logic functions, opto-couplers, relays and VCAs are defined and managed here. The network-ability of the software allows a central administration of several systems.

The integrated web-server permits platform-independently the convenient surveillance of the system technology via the network. This requires only a conventional browser. The alarm contact at the system rack supplies an additional facility of surveillance.

Flexibility

Nova17 is adaptable. Interface upgrades, integration of talkback, the use of the system as a MADI breakout or the integration of the system into a larger structure are just a few examples of how a user can easily expand or change the Nova17 in the future.

PROFILE

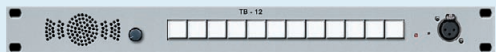
- **Compact matrix for up to 384x384 mono signals**
- **Modular design with wide range of interfaces**
- **Mono routing**
- **Cost-efficient solution for small structures**
- **Universal use by flexible configuration**
- **Integrated signal processing**
- **Optional: up to four MADI interfaces**
- **Optional: redundant power supply**
- **Control via Ethernet and RS422**
- **Integrated web server**



Panels

TB-12

19"/1RU panel with 12 buttons,
talkback microphone and -loudspeaker



KSC.T20

19"/1RU panel with 20 buttons



KSC.LCD16

19"/1RU panel with 16 LCD buttons



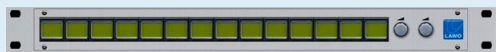
KSC.LCD15P1

19"/1RU panel with 15 LCD buttons and 1 volume control



KSC.LCD14P2

19"/1RU panel with 14 LCD buttons and 2 volume controls



Equipment for Workplaces

With the remote control panels of the series TB and KSC you can easily extend the zirkon and the Nova17 systems. At a low cost it facilitates the equipping of workplaces like announcer, producer, guest and editor's stations.

Common to all of these separate 19"/1RU devices is that they are fully integrated into the system configuration and that they can be conveniently connected via the system-CAN bus. Up to 15 of such control panels can be operated simultaneously by one system.

As an option, the KS series with Ethernet connection is available.

PROFILE

The Lawo remote control panels are designed as an extension for zirkon and Nova17 systems and are fully embedded in the configuration programme. Connected via CAN bus it is easy to integrate presenter suites or editor's workplaces. The panels offer an integrated self-test function, switchable speed of the CAN bus interface and a universal AC input.