



MORSE

Modular Resource Sharing Engine for C100 Digital Broadcast Consoles

SSL's MORSE provides an extremely reliable, cost-effective, and scalable system for sharing audio I/O and managing related control data in multi-studio broadcast facilities.

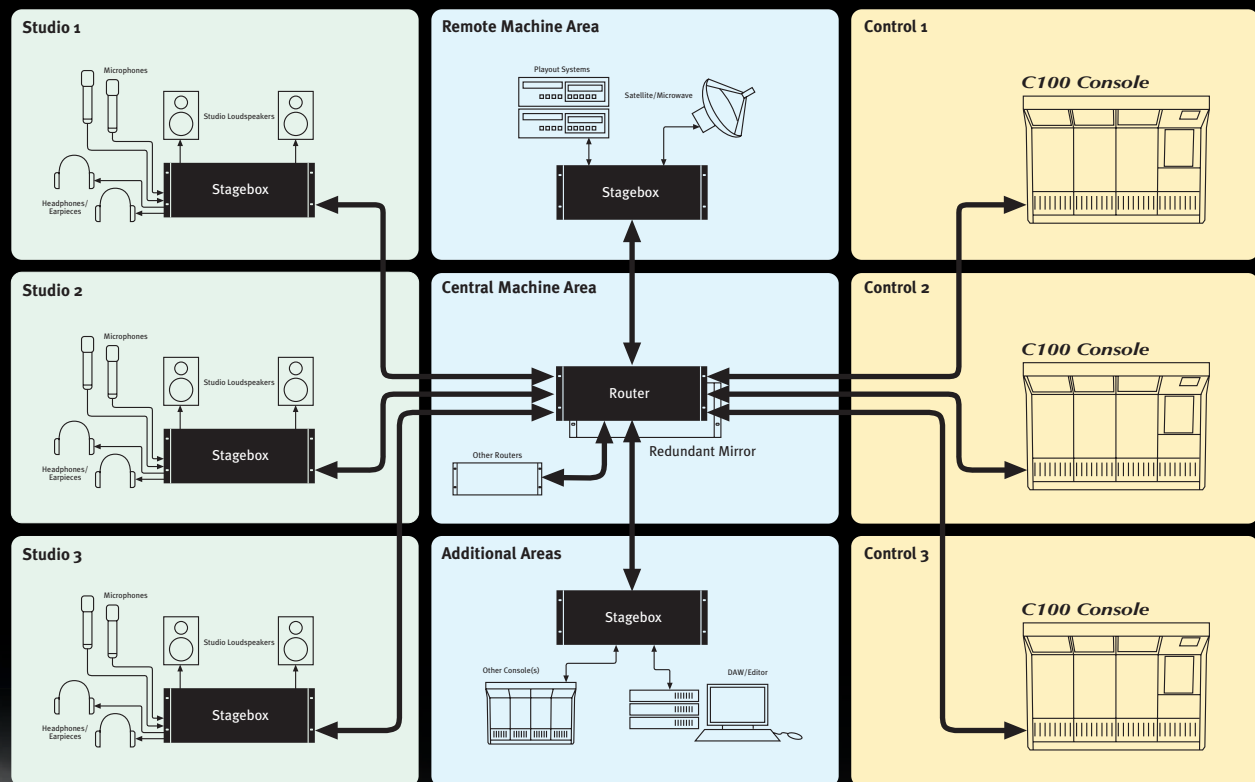
Designed for critical on-air environments, it benefits from hardware redundancy and fault-tolerant proprietary software.

Consisting of modular I/O in stageboxes and a central router chassis, the result is a resource sharing capability that offers fast switchover of any control room between multiple studio floors, and parallel usage of the same resources – with full ownership arbitration to avoid conflict.

Control of MORSE I/O parameters and crosspoint routing is fully integrated into the C100's user interfaces, resulting in a seamless operational experience.

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MORSE Modular Resource Sharing Engine



A typical 3- studio configuration, showing full system redundancy

MORSE – key benefits:

- Efficient multi-studio usage, sharing resources with ownership arbitration
- Seamless integration with C100, using the console's own graphical interfaces
- On-air reliability, ensured by comprehensive redundancy options
- Zero-downtime maintenance, provided through hot-swap hardware
- Cost-effective fit of current needs, using highly flexible modular I/O
- Future-proofed with ample expansion, up to 6,144 audio paths
- Specification flexibility, through a wide range of audio I/O interface types
- Removal of common vulnerabilities, as no PC is required for operation
- Fibre-optic interconnection, for interference-free operation in all locations
- Offline configuration and system overview, through optional PC software
- Multiple additional system control stations, on multiple optional PC clients
- Enforcement of all PC control rights by Administrator PC
- Cross platform connectivity, with standard MADI protocol

3U and 6U chassis sizes are available for the stagebox and router units, allowing for compact systems with space to expand, or more dense concentration of audio I/O and router crosspoint matrices. Cards are interchangeable between the two sizes of chassis, allowing existing modules to be re-deployed within a facility or re-used in an expanded frame when an upgrade is required.

In both frame sizes, the router can be configured as a fully redundant, mirrored system, with every module duplicated – PSU, sync clock input, communications controller, crosspoint matrix, and MADI I/O. Embedding of stagebox control data on the fibre-optic cable removes the need for separate serial/ethernet cabling, and offers the same interference immunity benefits as the audio enjoys.

The inherent interdependence of backplane designs is avoided by using an internal star configuration of connections, allowing hot swap of all stagebox and router cards. This offers low-impact maintenance – even while on-air.

Industry standard MADI connections on stageboxes and router allow any compatible audio equipment to be connected. Stagebox status and I/O parameter values (mic gain, digital SRCs, etc.) may optionally be viewed and updated using a web browser via a TCP/IP connection.

The router and stagebox hardware have low power consumption, convection cooling and proprietary technology using flash memory, removing the common causes of failure and offering the silent operation that allows studio floor positioning.

The optional 'Administrator' PC control software can be used to create password-protected user accounts, with control of which parts of the system may be accessed (eg. routing matrix, mic control), using the same arbitration of ownership as the consoles.

As many PCs as required may be connected to the system, with the Administrator PC enforcing access restrictions. Conversely, all PCs may be disconnected, leaving the system controlled solely by the C100 console(s).

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