SSL Broadcast Consoles For OB

The unique benefits of SSL C100 HDS and C10 HD
broadcast consoles for OB vehicles

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SSL Broadcast Consoles For OB

Unique integration features, absolute efficiency of size & weight... and the most ergonomically advanced HD broadcast production environment available.

Solid State Logic digital broadcast consoles are in daily use in OB vehicles with many of the world's leading broadcasters. Over 20 years of designing and manufacturing audio consoles for broadcast gives SSL extensive knowledge and a deep understanding of the unique demands of mobile installation. The current SSL broadcast range includes two Consoles (the C100 HDS and the C10 HD) and a range of I/O and Routing options whose physical and operational design makes them ideal solutions for OB.

Key Benefits

- Space, Power & Heat Efficient
- Compact Elegantly Ergonomic Control Surfaces
- Fanless, Convection Cooled, Silent Surfaces
- Versatile Mounting Options and 100% front access for maintenance
- Versatile I/O, audio distribution and routing options
- Integration of Automix, Upmix and Spot Playout into consoles surface
- Integration of comms, metering and display options into console surface
- Dual Operator options

This brochure is designed to supplement the substantial body of information available online and in other dedicated brochures for the SSL Broadcast Console range. It highlights the wealth of features which make SSL the right choice for OB.

Dubai Media

"The trucks were outfitted with the latest generation, high end HD equipment, so we needed consoles to match that quality. The C100 consoles were the right size, offering us great system flexibility and an easy learning curve. Continuing our relationship with SSL was an easy choice."

John Fee, Outside Broadcast Manager.

Space Efficient Control Surfaces

C100 HDS, 32+8 fader

There are a range of physical challenges involved in console installation in an OB vehicle; availability of physical space, weight, non standard mounting, high vibration, serviceability, power consumption and of course heat. SSL's broadcast solutions address them all.
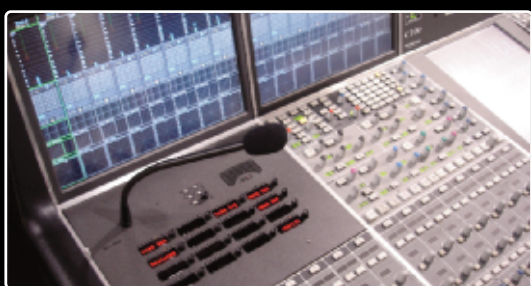
Both the C10 and C100 console frames pack an enormous amount of control and power into an impressively small area. The entire Control Surface Interface design delivers an extremely space conscious, ergonomic environment designed to present SSL's advanced feature set in a comfortable uncluttered way. With frame sizes available from 16+ 8 to 64+8 the C100 can provide a full 48+8 fader configuration within the commonly used 2m width restriction. The C10 can present 8+8 faders in as little as 570 mm width.

When it comes to physical installation SSL consoles feature a high rigidity chassis, designed with a central rail making it easy to fit legs or to mount directly on to a fixed frame. The C10 and C100 Console surfaces feature a 100% front access design for all maintenance operations, so can be permanently fixed to the vehicle structure.

SSL broadcast consoles operate comfortably in a wide range of environmental temperatures. Our control surfaces are convection cooled and fanless making them operationally silent. Power consumption is extremely low as is heat generation making them both environmentally friendly and ideally suited for vehicle installation.

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Embedded Systems

A unique feature of SSL broadcast consoles is the capacity to integrate a selection of essential broadcast technology into the console control surface. This innovative approach has several significant advantages: It delivers ergonomic and workflow optimisation via hands on control over multiple systems from a single control surface. It also completely removes the requirement for a range of individual dedicated products, each of which would require physical space, consume power and generate heat.

Integrated Comms

Depending upon configuration the C100 HDS console layout means that space is available to install a customised Comms panel manufactured by your provider of choice. SSL's Project Engineering team can work with you to provide a custom installation solution for any device which can be physically accommodated. *C100 only*

Integrated Metering

The C100 HDS uses a penthouse design which also leaves available space for 3rd party metering installation. SSL offers the DK Audio MSD600M++ and the RTW TM7 Touchmonitor as standard pre-installed options and can usually accommodate other options as required. *C100 only*

Channel Display Switching

Each of the C100 HDS channel bay's TFT displays can be switched as an option to an external VGA source, i-e to display a specific metering system, external matrix display or DAW display. This also potentially eliminates requirements for a number of external displays.

Broadcast Production Assistants... Eliminating the need for external hardware systems
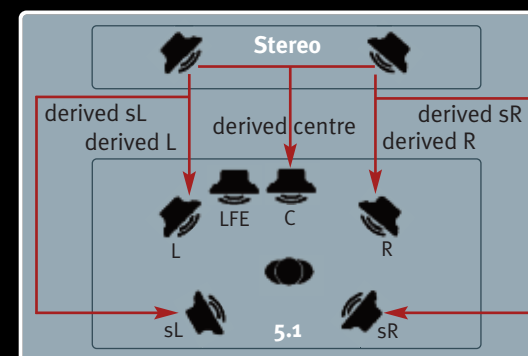
C-Play – playout built into the console

The **C-Play** system embeds a fully functional spot and music Playout system into the C100 HDS or C10 HD. C-Play offers sophisticated fully featured dual player Playout functionality with the advantages of console hardware control and recall of Playout settings as part of a console Project.

Dialogue Automix – automated multi mic mixing

The **Dialogue Automix** option embeds a fully featured system which provides software driven automation of the Operator task of riding the faders to maintain a smooth, balanced mix in the fast paced environment of a multi microphone talk/sports show.

5.1 Upmix – upmixing inside the console

Our **5.1 Upmix** option embeds a comprehensive 5.1 Upmix/Downmix system into the console. SSL's 5.1 Upmix option automatically creates a 5.1 surround mix from any stereo audio source and makes it available for manipulation. Upmixed 5.1 can easily be downmixed back to stereo or mono without any unwanted artefacts.

DAW Control - Integrated post control

The C100 and C10 can provide an ergonomic **DAW Control Surface** for a wide range of popular packages, allowing post-production to be carried out on location without the need to add a dedicated audio post area.

All Broadcast Production Assistants are available for both C100 and C10 consoles.

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Processing, I/O, Routing & Resource Sharing: C100

The C100 delivers extensive the Processing, I/O and Routing options required for a sophisticated HD OB vehicle with absolute space, weight and heat efficiency.
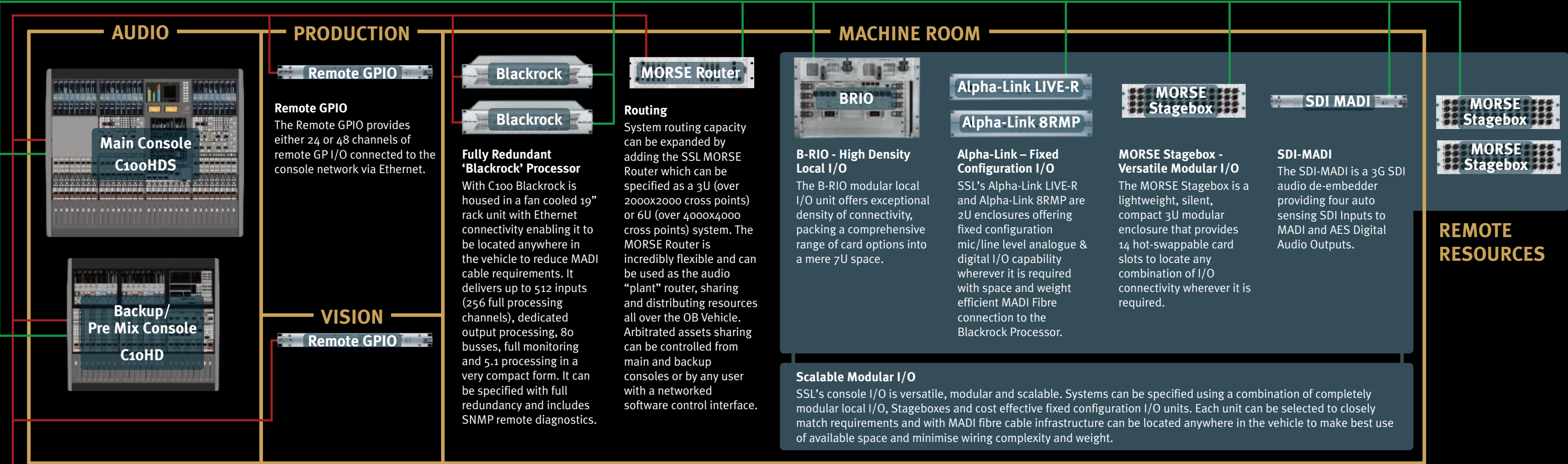
SSL Network

A proprietary SSL Network using standard Cat 5 cable and routing hardware enables multiple consoles to communicate with Processor, Router and Remote Control hardware in a versatile environment with fully arbitrated control.

MADI Audio Distribution

MADI over fibre audio distribution enables I/O hardware to be located wherever it is required with high channel audio over single fibre cable reducing weight and maximising space efficiency. Full fibre redundancy can also be specified.

SDI Integration

The MORSE Stagebox can be fitted with an SDI Embedder/De-Embedder option enabling streamlined integration with other Routing systems within the vehicle. The SSL SDI-MADI offers a low cost De-Embedder option with a 1U rack that can extract up to 64 channels of digital audio from four SDI inputs.

AUDIO — **PRODUCTION** — **MACHINE ROOM**

Main Console C100HDS

Backup/ Pre Mix Console C10HD

Remote GPIO

VISION — **Remote GPIO**

Blackrock

Blackrock

MORSE Router

BRIO

Alpha-Link LIVE-R

Alpha-Link 8RMP

MORSE Stagebox

SDI MADI

MORSE Stagebox

MORSE Stagebox

REMOTE RESOURCES

Remote GPIO

The Remote GPIO provides either 24 or 48 channels of remote GP I/O connected to the console network via Ethernet.

Fully Redundant 'Blackrock' Processor

With C100 Blackrock is housed in a fan cooled 19" rack unit with Ethernet connectivity enabling it to be located anywhere in the vehicle to reduce MADI cable requirements. It delivers up to 512 inputs (256 full processing channels), dedicated output processing, 80 busses, full monitoring and 5.1 processing in a very compact form. It can be specified with full redundancy and includes SNMP remote diagnostics.

Routing

System routing capacity can be expanded by adding the SSL MORSE Router which can be specified as a 3U (over 2000x2000 cross points) or 6U (over 4000x4000 cross points) system. The MORSE Router is incredibly flexible and can be used as the audio "plant" router, sharing and distributing resources all over the OB Vehicle. Arbitrated assets sharing can be controlled from main and backup consoles or by any user with a networked software control interface.

B-RIO - High Density Local I/O

The B-RIO modular local I/O unit offers exceptional density of connectivity, packing a comprehensive range of card options into a mere 7U space.

Alpha-Link – Fixed Configuration I/O

SSL's Alpha-Link LIVE-R and Alpha-Link 8RMP are 2U enclosures offering fixed configuration mic/line level analogue & digital I/O capability wherever it is required with space and weight efficient MADI Fibre connection to the Blackrock Processor.

MORSE Stagebox - Versatile Modular I/O

The MORSE Stagebox is a lightweight, silent, compact 3U modular enclosure that provides 14 hot-swappable card slots to locate any combination of I/O connectivity wherever it is required.

SDI-MADI

The SDI-MADI is a 3G SDI audio de-embedder providing four auto sensing SDI Inputs to MADI and AES Digital Audio Outputs.

Scalable Modular I/O

SSL's console I/O is versatile, modular and scalable. Systems can be specified using a combination of completely modular local I/O, Stageboxes and cost effective fixed configuration I/O units. Each unit can be selected to closely match requirements and with MADI fibre cable infrastructure can be located anywhere in the vehicle to make best use of available space and minimise wiring complexity and weight.

Dual Console Systems & Two Man Operation

The MORSE Router also enables a second console to be added providing 2 systems in one, with two completely independent consoles sharing I/O with advanced control arbitration functionality. Multiple SSL consoles can be networked, not only offering the main and back-up console, but also a large/main console and a premix console if required to meet the demands of even the most sophisticated events. SSL's forthcoming Dual Operator Option for the C100 HDS will introduce Dual Operator capability with a single control surface.

External Control & Integration

C100 & C10 offer advanced remote control capability with; Pro-Bel protocols, VSM, GPI and Ross, Sony & Mosart Production Automation. SSL MADI infrastructure is compatible with Riedel Rocknet and Optocore redundant ring systems.
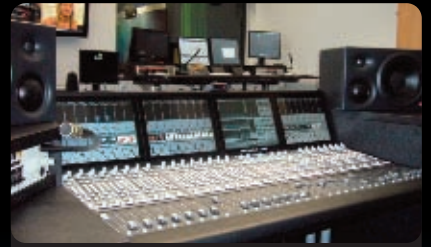
Communications Integration

SSL's MADI audio distribution can also be used to carry Comms feeds, including control signals, for many AES3 compatible Communication systems. The AES feed from the Comms matrix can be connected via AES digital, converted to MADI and then routed and carried, point to point, between MORSE Stageboxes using SSL's MADI fibre infrastructure, allowing an easy positioning of Comms panels on stage.

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C100, Liga TV, Hungary

C10, SSL Demo Vehicle, USA
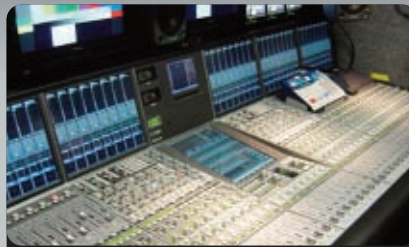

C10, Westcom, Germany

C10, WNET, USA

C100, Euromedia, France

C100, NESN, USA

C100, TF1, France

C100, CBC HD2, Canada

C100, Mansion Mobile, USA

C10, ABC, Australia

C100, Dubai Media, Dubai

C100, Duna TV, Hungary

Solid State Logic

International HQ: Begbroke, Oxford, England OX5 1RU · Tel +44 (0)1865 842300 · sales@solidstatelogic.com

Cologne: Tel +49 7001 8658 42300 · sales@solidstatelogic.com
Los Angeles: Tel +1 213 249 9229 · lasales@solidstatelogic.com
Milano: Tel +39 (0)392 328 094 · itasales@solidstatelogic.com
New York: Tel +1 212 315 1111 · nysales@solidstatelogic.com
Paris: Tel +33 (0)1 48 67 84 85 · frsales@solidstatelogic.com

Singapore: Tel +65 6438 2272 · sales@solidstatelogic.com
Thailand: Tel +66 2 587 5111 · Email akaraphol@ssl-bkk.com
Tokyo: Tel +81 (0)3 5474 1144 · jpsales@solid-state-logic.co.jp
Zagreb: Tel +38 513 079 405 · sales@solidstatelogic.com

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