

rubicon

BROADCAST CONSOLE CONTROL SURFACE



rubicon



rubicon™

**BROADCAST CONSOLE
CONTROL SURFACES
ENGINEERED by the NAME
SYNONYMOUS with
the BEST in DIGITAL
AUDIO ROUTING and
NETWORK DESIGN**

WOW! GEEKS AND JOCKS AGREE

SAS packs so much beauty and sophistication, intelligence and capability into the new Rubicon console control surface that even the most intensive major market programmer or board operator will swoon. Yet Rubicon is so intuitive, so comfortable, so easy to use, the weekend intern too is sure to sound like a pro.

In other words, Rubicon has a bucketload of features for the simplest or most complex of broadcast-related tasks.

And should you think form to precede function, as you can see, Rubicon's clean, easy-to-understand controls are wrapped up within a drop-dead gorgeous frame.

INTUITIVE, RESPONSIVE, INCREDIBLE

Until Rubicon, consoles came in only two flavors: simple but limited; or so powerful and complex even seasoned DJs or operators could be overwhelmed. Rubicon answers the call with a clean and open layout that keeps your most frequently needed controls both easy to understand and fingertip close.

For the power user, Rubicon's convenient Dynamic Control Matrix™ provides access to more advanced functions, such as Router Source Select, Pan/Balance, Mode (stereo, mono, left, right, reverse) and more. Even the most process-intensive morning or telephone talk shows have found Rubicon to provide more control that they could ever ask for.

DYNAMIC CONTROL MATRIX™

Record Split gives convenient control for feeding left-only and right-



only to phone editors for caller/announcer split editing. Pre/post and level controls for effects sends and utility buses are also in the Dynamic Control Matrix.



Bus assignments are easy to reach and plentiful. There can be any mixture of program buses, record outputs to various machines, off-line buses for callers, sends to effects, etc.

Each module has up to ten bus assignment buttons, with many more auxiliary buses accessible within the Dynamic Control Matrix. Record, off-line, and send buses can be set to pre-switch and/or pre-fader, so there's no danger of accidentally going on air.

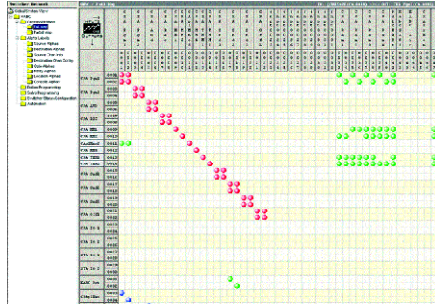
Hot-key source select is also at hand. Any Rubicon input module can access any source in the entire 32KD system through the Dynamic Control Matrix, but most users want a quick way to get back to the "standard" source for that module. Hot-key source select is the answer—assign one button, two (for A-B) or even up to ten.



AUTOMATIC MIX-MINUS A BIG PLUS

No need to dedicate separate output buses for mix-minus, then worry if you have enough or how to route them.

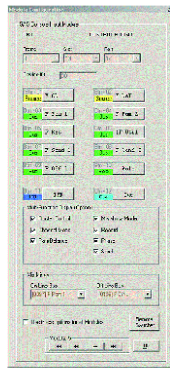
Call up a mix-minus device such as a telco hybrid, ISDN, or two-way remote link, and Rubicon automatically creates a separate mix-minus feed to that device. Use the Dynamic Control Matrix to designate separate base mixes when the caller is off-line and on-air, making pre-air preparation or phone editor recording a no-brainer.



Crosspoint map offers a convenient view and control interface to the Connected Digital Network.

USER-CONFIGURABLE, OF COURSE

Like standard and typical consoles, Rubicon comes pre-configured. But its vast array of capabilities and extensive features are all



easily customized, using the supplied proprietary SAS router and Rubicon control software. You can assign names to each source and destination in the system, configure the bus assignments, even set which functions in the Dynamic Control Matrix are available or hidden to the user.

YOUR SHOW OF SHOWS

With the optional Console Control Module, Rubicon offers the power to set up the console in an exact preferred configuration, then save that configuration as a SHOW. You may easily recall any saved SHOW, even when the console is on the air. Any module that is OFF will be reconfigured to the recalled SHOW; modules that are ON will be reconfigured when turned OFF. Show Save and Recall can be password controlled, if desired.



SEEING IS BELIEVING

Rubicon's modular design and construction allows you to choose from an assortment of console frame sizes. Frames in units of 8, 16, 24, 32 or 40 slots (see back page for dimensions) accommodate your selection of modules—whatever you need to meet your specific requirements.

And yet, notwithstanding all its flexibility and strengths, Rubicon's most important feature is its inherent ability to make both the pro and novice feel comfortable and in control. In fact, we can now safely say that the "wow!" effect created by Rubicon's ease of use plus depth of intelligence and style has already begun to spread to DJs, operators and engineers throughout the broadcast community.

Experience Rubicon's brains and beauty, power and performance for yourself. Just give us a call. It'll be love at first sight.



10 buttons that are programmable as hot-source select, bus assigns or solo, providing extreme flexibility for the most demanding shows.

Use additional bus assigns for direct feeds to record devices or for separate base mixes for mix-minus.

Control Room Monitor and Studio Monitor Module buttons are programmable to select any bus or source in the router.

Less frequently used controls are grouped in the Dynamic Control Matrix, quick and easy to access yet never in the way.

Dynamic Control functions give Rubicon the power of even the most extensive production consoles with the ease of familiar on-air boards.

For inexperienced users, functions can be locked out to prevent operational errors.

Full-length 100mm P&G faders on the Input and Control Room Monitor modules have that famous smooth feel and precise control you know and love.

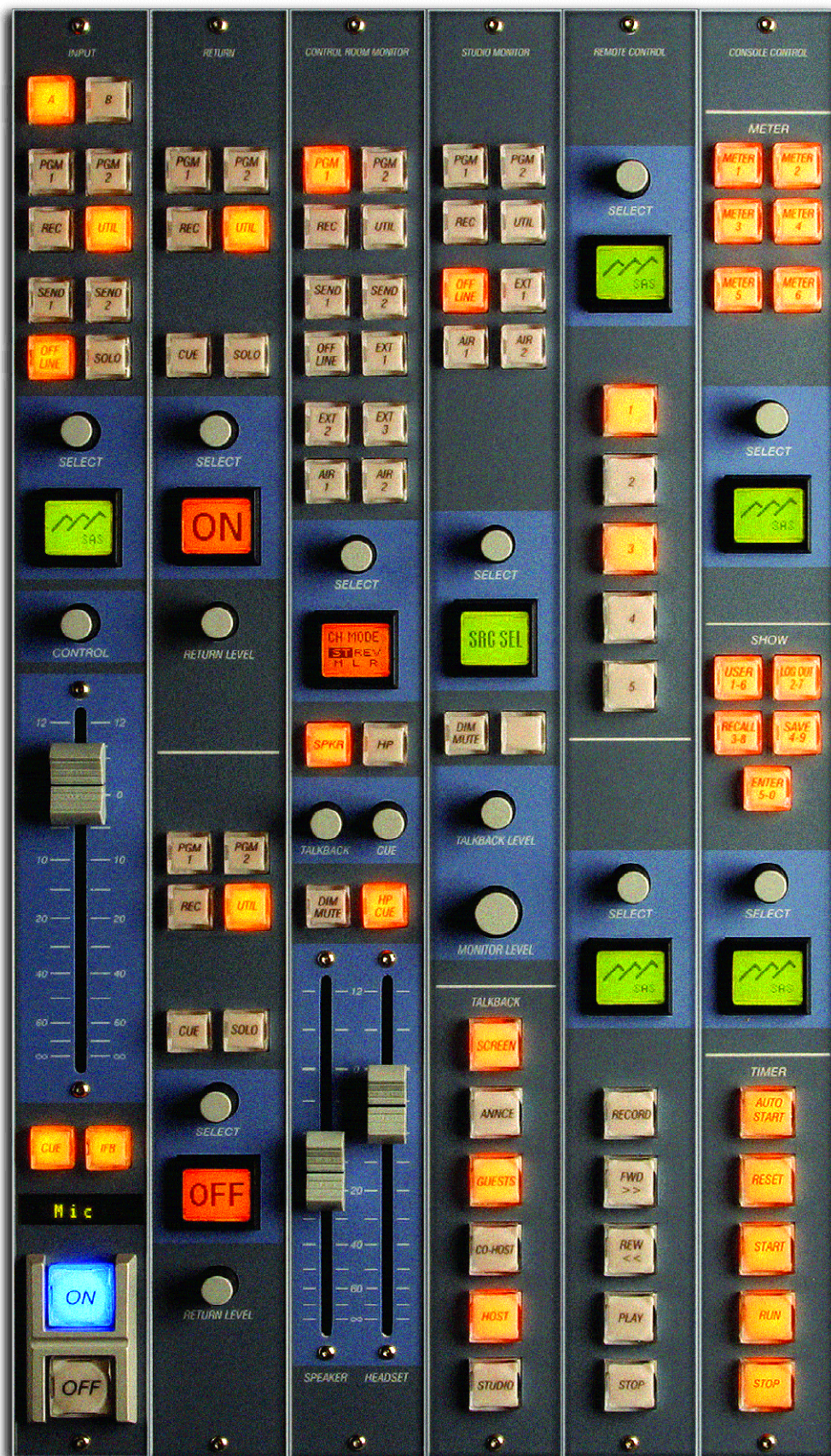
Rugged long-life magnetic switches have a positive tactile feel. Bright LED indicators jump out in sun-lit rooms when ON, and when OFF are back-lit to be easily read even in darkness.

IFB to the source currently selected. Use it to talk to announcer's or guest's headphones, news room, traffic, ISDN, or to a recorder for slating.

Large LED display of the selected source.

Button guard on the ON and OFF switches to prevent inadvertent actuation.

Other modules are available for talkback and intercom, studio-to-transmitter routing, general router control, or for mounting of third-party controllers such as telephone caller systems, and/or other special applications.



SAS CONNECTED DIGITAL NETWORK™

Rubicon is the console control surface of a complete system of audio routing, mixing, distribution, intercom, IFB, and automation. This system we call the SAS Connected Digital Network.

At the hub of the Connected Digital Network is the **32KD** Digital Router/Mixer. The 32KD is the proven performer in hundreds of radio, network, and film installations around the world. The 32KD is expandable to thousands of inputs and outputs, at one location or spread throughout a facility interconnected via fiber.

At the spokes of the Connected Digital Network are SAS **RIOLink** remote I/O router/mixers. RIOLink provides efficient signal distribution throughout a facility, whether used with Rubicon, a conventional console, or to interconnect remote locations such as a transmitter penthouse. RIOLink can also provide local mixing should it become disconnected from the 32KD, or for stand-alone applications requiring a smaller router/mixer. The Connected Digital Network also includes intercom, physical and virtual router controllers, and extensive automation.



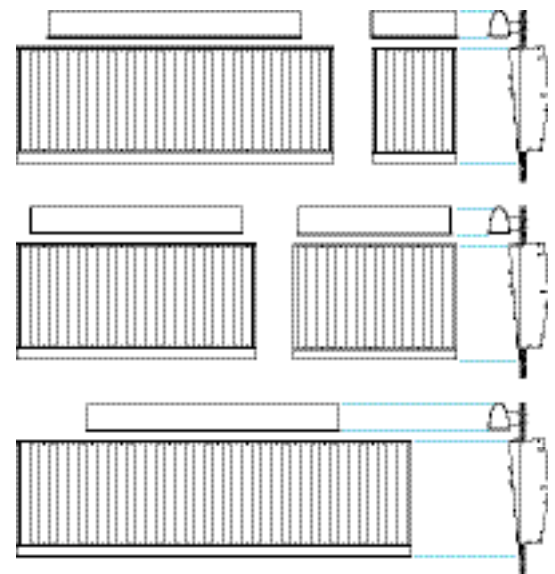
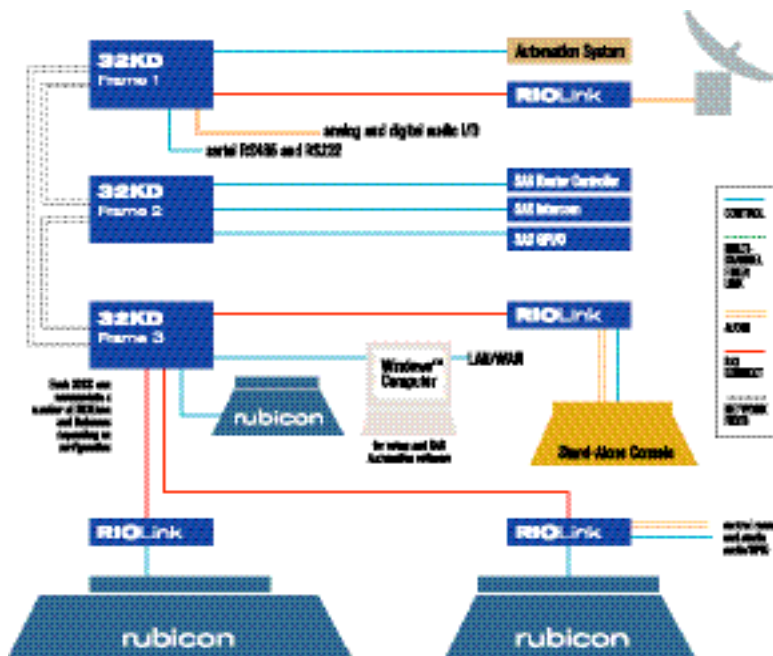
32KD, RIOLink and Rubicon Power Supply

DISTRIBUTED RELIABILITY AND REDUNDANCY

Integral to the fabric of the Connected Digital Network architecture is the design concept of "distributed liability"—providing multiple layers of redundancy. Any component failure takes out only the small section that it serves. Audio in the 32KD is split into multiple TDM buses, each handling only 32 channels of audio; a disturbance on one bus only affects that small group of channels. Two separate control communication buses between modules and two separate clock buses multiply the level of distributed reliability.

The 32KD does not use a "DSP farm;" instead the DSPs on each output card handle routing and mixing for those outputs only. Redundant power supplies are available throughout.

The ultimate failure: loss of the terminal room. No problem. The RIOLink keeps on going, providing full Rubicon console control of routing and mixing of all local sources connected to that RIO. And, of course, the SAS router control software provides backup and easy restoration of your entire system's settings.



RUBICON FRAME

Configurations	8, 16, 24, 32, or 40 modules wide; any slot can accept any Rubicon module
8-module width	13-3/16" cutout, 14" overall
16-module width	26" cutout, 26-7/8" overall
24-module width	38-3/4" cutout, 39-11/16" overall
32-module width	51-9/16" cutout, 53-1/2" overall
40-module width	64-3/8" cutout, 66-1/4" overall
Depth	17-5/16" cutout, 19-1/4" overall
Height	4-5/8" maximum below top of counter surface

RUBICON METER BRIDGE

Configurations	1 stereo meter with one clock or timer, or 2, 4 or 5 stereo meters, with clock and timer
1-meter bridge	15" wide; fits all frames
2-meter bridge	24-1/2" wide; fits 16-module and larger frames
4-meter bridge	36-1/2" wide; fits 24-module and larger frames
5-meter bridge	42-1/2" wide; fits 32- and 40-module frames
Depth	Rear of bridge 5-3/4" from back of Rubicon frame
Height	6-1/4" maximum when tilted fully up

POWER SUPPLY

SPR-200	2-rack unit supply that powers one Rubicon frame of any size, and two RIOLinks; use two SPR-200 for redundancy
SPR-50	In-line supply that powers an 8-module frame; use two SPR-50 for redundancy

TURRET PANELS

A range of turret panels are available, for mic off/on/cough, monitor and headphone source select, talkback, and more.

Dimensions 1.6" wide, 6" high

CONNECTED DIGITAL NETWORK

Refer to the companion SAS Connected Digital Network and 32KD brochure for more details and information.



**SIERRA
AUTOMATED
SYSTEMS**

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