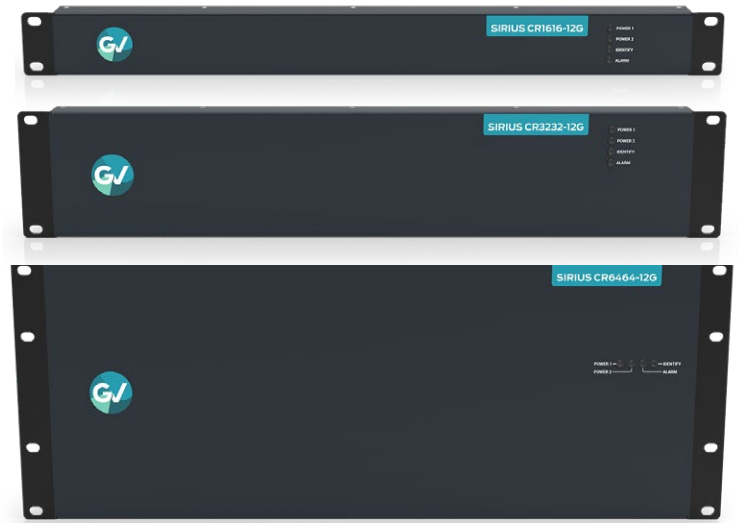


SIRIUS COMPACT ROUTERS 12G SDI Compact Video Routers



12G video routing for advanced formats and simplified workflows.

The Grass Valley Sirius Compact range is ideally suited to utility routing applications with the ability to route all SDI video formats, including 12G/3G/HD/SD, in matrix sizes from 16x16 to 64x64. These compact routers are controllable from the Sirius Compact Panels, as well as by GV Orbit and the NV9000 control system.



Key Features

Extremely small form factor

- Ultra thin, saves rack space
- 1 RU, 2 RU and 4 RU sizes
- Lightweight design
- Non-square router configurations for monitoring applications

Formats

- Future-proof 12G/3G/HD/SD
- DVB-ASI compliant

Robust design

- Robust design for rugged conditions
 - Highly reliable power supply over 500,000 hours MTBF
 - Optional redundant power supply available
 - Range operates with the entire Sirius router range
- #### Powerful configuration tools
- USB port for configuring IP addresses via AJA's free eMini-Setup software

Multiple control capabilities

- Ethernet and serial control
- Up to 8 salvos can be configured and saved in each router
- Standalone and networked control panels
- Graphical User Interface (GUI) panels from GV Orbit or NV9000

Ordering

SCR 1616-12G

Sirius Compact Router

16x16 Single Link 12 Gb/s UHD Serial Digital Video Router, 1 RU, 1 power supply provided, redundant is optional

SCR 3232-12G

Sirius Compact Router

32x32 Single Link 12 Gb/s UHD Serial Digital Video Router, 2 RU, 1 power supply provided, redundant is optional

SCR 6464-12G

Sirius Compact Router

64x64 Single Link 12 Gb/s UHD Serial Digital Video Router, 4 RU, 1 power supply provided, redundant is optional

SCP1

Sirius Compact Panel

1 RU Hardware Control Panel for Sirius Compact routers

SCP2

Sirius Compact Panel

2 RU Hardware Control Panel for Sirius Compact routers

SCRPS2A

Sirius CR6464-12G +12 VDC power supply, for redundant operation or spare

CRPS1

Redundant power supply for Compact Routers – to be used as the redundant or spare supply for the SCR 1616-12 and the SCR 3232-12G compact routers.

SIRIUS COMPACT ROUTERS 12G SDI Compact Video Routers

SCR 1616-12G Sirius Compact Router



SCR 1616-12G offers increased capacity for larger configurations while maintaining a compact 1 RU profile with support for 1.5G-SDI/3G-SDI/6G-SDI/12G-SDI with 16x 12G-SDI inputs and 16x 12G-SDI outputs.

Sirius 12G SDI routers support large format resolutions, high frame rate (HFR) and deep color formats, while reducing cable runs when transporting 4K UHD over SDI. The routers offer network-based and/or physical control, with a new USB port for configuring IP addresses via AJA's eMini-Setup software. SCR 1616-12G is the ideal choice for any situation where a balance of size and capacity are critical such as mid-sized post facilities and mobile trucks.

SCR 1616-12G Sirius Compact Router Rear

RS-422
RS-422 remote control via 9-pin D-connector with basic support for Grass Valley Native Protocol support

LAN Connection
RJ-45 10/100/1000 LAN Connector – internal web server, Bonjour support

USB Connection
USB port to easily configure the router IP address and simplify network configurations

Fully Redundant AC Power Supplies
Two independent 12 VDC inputs provide safe operations. Power status can be checked from a LAN-attached browser

Reference Input with Loop-through
The reference input synchronizes the router switching point per SMPTE specifications. The reference input supports blackburst for SD and tri-level sync for HD

SD-SDI/HD/3G/6G/12G Inputs and Outputs
SMPTE ST 259/292/424/2081/2082

SIRIUS COMPACT ROUTERS 12G SDI Compact Video Routers

Specifications

Video Format

270 Mb/s, 1.5 Gb/s, 3 Gb/s, 6 Gb/s, 12 Gb/s SDI
270 Mb/s DVB-ASI
Format agnostic, 270 Mb/s – 12 Gb/s

Video Input Digital

12G-SDI inputs
16x 12G-SDI BNC, SMPTE ST 259/292/424/2081/2082

Video Output Digital

12G-SDI outputs
16x 12G-SDI BNC, SMPTE ST 259/292/424/2081/2082

Noninverting

Ancillary Data

Passes all SDI embedded ancillary data including audio

Salvo

Up to 8 salvos can be configured and saved in each Sirius router

Cable Equalization (Belden 1694A)

- 12 Gb/s, up to 55m
- 6 Gb/s, up to 110m
- 3 Gb/s, up to 185m
- 1.5 Gb/s, up to 210m
- 270 Mb/s, up to 405m
- Automatic operation

Reclocking

270 Mb/s, 1.483 Gb/s, 1.485 Gb/s, 2.967 Gb/s, 2.970 Gb/s, 5.934 Gb/s, 5.940 Gb/s, 11.868 Gb/s, 11.880 Gb/s – Auto Select

All other rates are passed through and not reclocked

Switching Modes

Single, Dual, and Quad link modes
Switches in vertical blanking per SMPTE RP 168

Control Panel Compatibility

SCP1 – 1 RU X-Y Ethernet control panel
SCP2 – 2 RU X-Y Ethernet control panel

Reference Input

External, 2x BNC
Looping, nonterminating
Blackburst or tri-level sync

Network Interface

1x RJ-45, 10/100/1000 Ethernet
Supports Sirius Ethernet control panels, direct connect or networked
Basic support for Grass Valley Native Protocol
Embedded web server for remote control

USB Interface

1x Mini-USB for IP configuration using eMini-Setup

Serial Interface

1x DB-9 Female, RS-422
Basic support for Grass Valley Native Protocol
9-pin D-connector pinout is as follows:

1	GND
2	TX-
3	RX+
4	GND
5	No Connection
6	GND
7	TX+
8	RX-
9	GND
Shell	GND

Dimensions (WxDxH)

1 RU – 441.96 x 39.12 x 44.45 mm (17.4 x 1.54 x 1.75 in.)

Weight

0.7 kg (1.4 lbs.)

Power

10-14 VDC regulated, 16W typ, 18W max, power supply required, included with purchase

AC adapter: 100-240 VAC, 50/60 Hz, universal input

Environmental

Safe operating temperature: 0 to 40°C (32 to 104°F)

Safe storage temperature (Power OFF): -40 to 60°C (-40 to 140°F)

Operating relative humidity: 10-90% noncondensing

Operating altitude: <3,000m (<10,000 ft.)