

VRS-1620 Master Control Routing Switcher



DESCRIPTION

VRS-1620 is a professional, flexible and practical multi-format master control routing switcher. Switching size is 16x2. It has PST & PGM Bus. Two switching modes are provided: PST +TAKE trigger or direct switch on PGM BUS. Vertical interval switching is provided and the switching point is set at the 6th line on the video reference input for the integrity of video and embedded audio.

VRS-1620 supports multiple signal formats, including SD-SDI, CVBS, MONO-AUDIO and STEREO-AUDIO. Two switching modules can be inserted in a single frame. Redundant power supply units are used in the frame. VRS-1620 supports dual RS-232/422 control interface, and it can be controlled through the local panel or the remote control panel. A built-in 2x1 protection changeover is used to ensure stability and reliability, it is ideal for the changeover between main & backup channel in broadcast systems.

VRS-1620 is well suited for all demanding routing tasks in broadcast control centers, including OB vehicles, news gathering vans, microwave transfer Bus, advertising spots and non-linear editing.

KEY FEATURES

- 19 inch., 1RU frame
- Rear plug-ins, flexible design
- Signal Format: SDI, CVBS, MONO-AUDIO and STEREO-AUDIO
- Switching size: 16x2, special PST & PGM BUS
- REF vertical interval switching
- Built-in passive 2x1 protection changeover
- Controlled through local panel or remote control panel
- Redundant power supply units
- Dual RS-232/422 control interface

SPECIFICATIONS

Mechanical

Width.....19 in. (483mm)
 Height.....1RU (44mm)
 Depth.....10.6 in. (270mm)

Electrical

Power Supply.....90V ~ 260VAC 50/60 Hz
 Power Consumption.....50 W

Environmental

Operating Temperature.....32° ~ 104°F (0° ~ 40°C)
 Relative Humidity.....10% ~ 90%

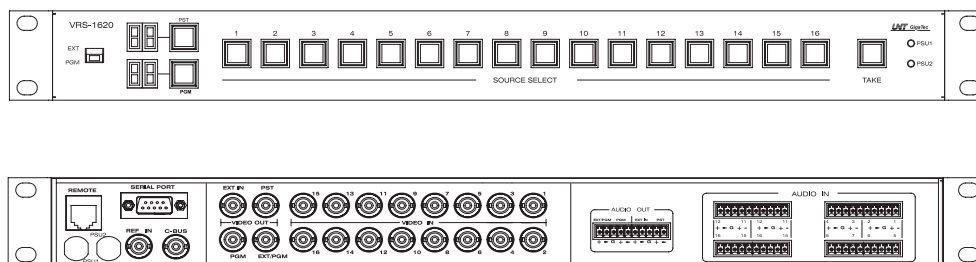
Frame

Scale.....1RU

Control Interface

C-BUS.....BNC (x1)
 RS-232/422.....DB-9F (x1)
 REMOTE.....RJ-45 (x1)

FRONT & REAR VIEW

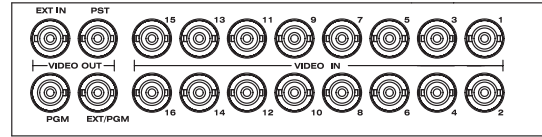


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SWITCHING MODULE

© VRS1620-AV 16x2 CVBS Routing Switcher

Supports CVBS (composite video) in any standards 16x2 Switching



SPECIFICATIONS

Electrical

Power Supply.....± 12VDC
Power Consumption.....10W

Output

Connector.....BNC (x4)
Impedance.....75 Ω
Return Loss.....> 45 dB @ 4.43 MHz
Amplitude.....1.0Vp-p

Input

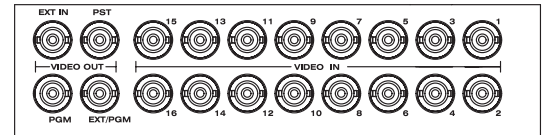
Connector.....BNC (x16)
Impedance.....75 Ω
Return Loss.....> 45 dB @ 4.43 MHz
Amplitude.....1.0Vp-p

Performance

Gain.....0 dB
Frequency Response.....< ±0.1dB DC ~ 10 MHz,-3 dB @ 80 MHz
S/N Ratio.....> 75 dB (unweighted)
Differential Gain.....< 0.10% @ 4.43 MHz
Differential Phase.....< 0.10° @ 4.43 MHz
H/V Tilt.....< 0.25%

© VRS1620-SD 16x2 SDI Routing Switcher

Supports SDI (Digital Video) 16x2 Switching



SPECIFICATIONS

Electrical

Power Supply.....±12V DC
Power Consumption.....15 W

Performance

Amplitude.....800mV±10%
Rise/Fall Time.....0.4 ~ 1.5 ns
Overshoot.....< 10% of amplitude
Jitter.....< 0.2 UI

Input

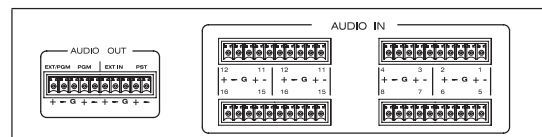
Connector.....BNC (x16)
Signal Format.....SMPTE 259M, A, B, C, D standards SDI, DVB-ASI
Impedance.....75 Ω
Return Loss.....> 18 dB @ 10 Mbps ~ 270 Mbps
Amplitude.....200m V ~ 1000m Vp-p

Output

Connector.....BNC (x3)
Return Loss.....> 18 dB @ 10 Mbps ~ 270 Mbps

© VRS1620-AA 16x2 MONO-AUDIO Routing Switcher

Supports MONO-AUDIO (analog audio) 16x2 Switching



SPECIFICATIONS

Electrical

Power Supply.....±12V DC
Power Consumption.....8 W

Performance

Gain.....0 dB
Frequency Response.....< ±0.1 dB 20 Hz ~ 20 KHz
THD+N.....< 0.05%
THD.....< 0.02%

Input

Connector.....3Pin
Impedance.....110 KΩ
Level.....≤ +20 dBu
Common Mode Rejection.....> 60 dB 20 Hz ~ 20 KHz

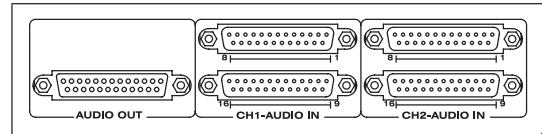
Output

Connector.....3Pin
Impedance.....33 Ω
Level.....≤ +22 dBu

VRS-1620 Master Control Routing Switcher

© VRS1620-STEREO 16x2 STEREO-AUDIO Routing Switcher

Supports STEREO-AUDIO (analog audio stereo) 16x2 Switching



SPECIFICATIONS

Electrical

Power Supply.....±12V DC
Power Consumption.....18 W

Input

Connector.....DB-25F
Impedance.....110 KΩ
Level.....≤ +20 dBu
Common Mode Rejection.....> 60 dB 20 Hz ~ 20 KHz

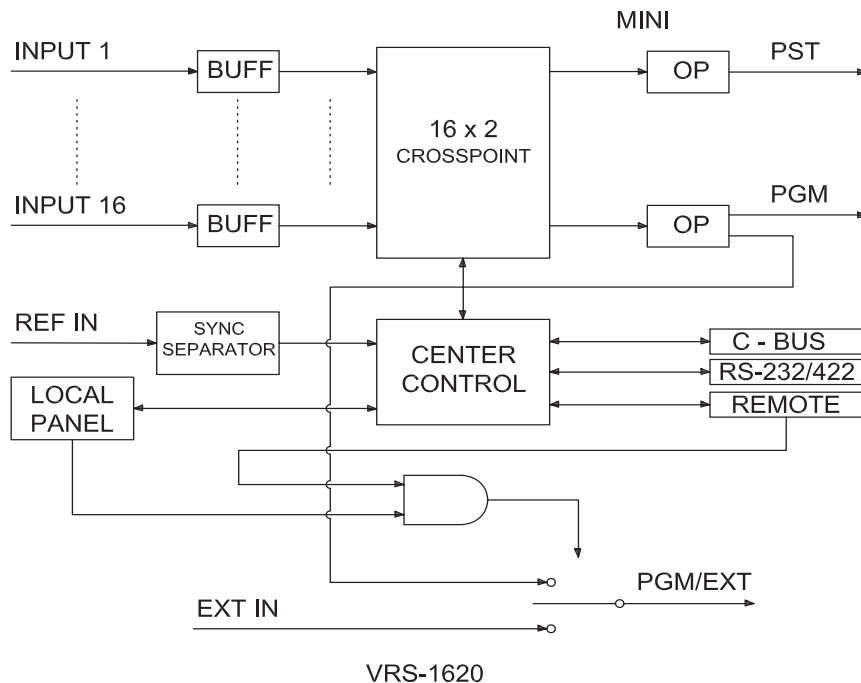
Output

Connector.....DB-25F
Impedance.....33 Ω
Level.....≤ +22 dBu

Performance

Gain.....0 dB
Frequency Response.....< ±0.1 dB 20 Hz ~ 20 KHz
THD+N.....< 0.05%
THD.....< 0.02%

BLOCK DIAGRAM



ORDERING INFORMATION

◆ Modules

Model

VRS1620-SD
VRS1620-AV
VRS1620-AA
VRS1620-STEREO

Product Description

16x2 Digital Video Switching Module
16x2 Analog Video Switching Module
16x2 Analog Audio Switching Module
16x2 Analog Stereo Audio Switching Module (DB25 to 3Pin converter included)