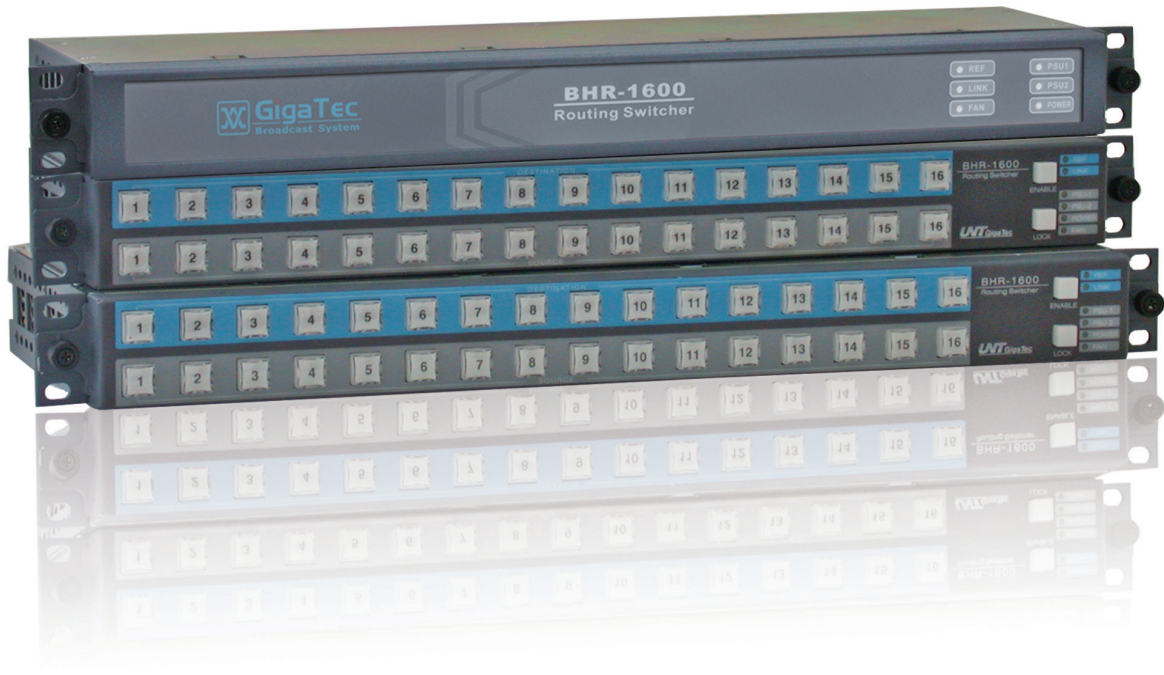# BHR-1600 — 3G/HD/SD-SDI Small-Scale Routing Switcher

The BHR-1600 is a compact and cost-efficient routing switcher for 3G/HD/SD-SDI signals. Switching size is up to 16x16. Auto reclocking for signals at 270 Mbps,1.483/1.485 Gbps or 2.976/2.970 Gbps is supported. Switching takes place at the vertical blanking interval for quality video and audio switch.

Various control

The BHR-1600 routing switchers are equipped with LED indicators and buttons on the front panel for local control. It can be also controlled via control panel remotely. Additionally, an Ethernet port, dual RS-232/422 ports and a C-BUS connector are provided for various control.

Other features

The BHR-1600 routing switchers support redundant power supplies for higher reliability. Under Monitor Display (UMD) function is available for dynamically displaying name and status of each signal source.

KEY FEATURES AND BENEFITS
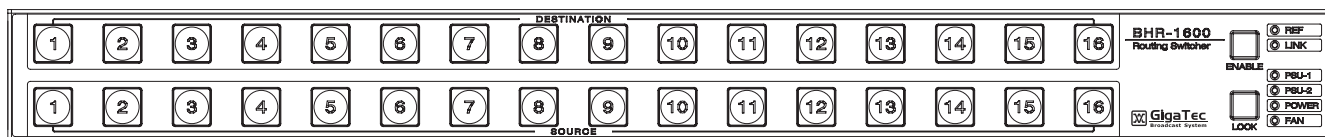
Frame and signal

- 19", 1RU
- Supports data rate up to 3Gbps
- Auto reclocking for HD/SD-SDI signals available
- Auto input equalizing
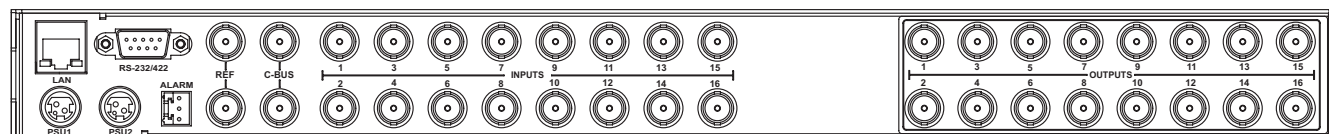- Selectable switching sizes include 16×4, 16×8 and 16×16

Other features

- Supports Under Monitor Display (UMD)
- Redundant power supplies
- Signal status and alarm indication available
- Local panel control
- Remote panel control

BHR-1600   3G/HD/SD-SDI Small-Scale Routing Switcher

FRONT VIEW

REAR VIEW

SPECIFICATIONS

Specifications are subject to change without notice.

INPUT
Connector..............................BNC
Impedance.............................75 Ω
Return Loss..........................>15 dB, 15 MHz ~ 1.5 GHz
                                    >10 dB, 1.5 GHz ~ 3 GHz
Cable EQ.............................1,320 ft (400 m), 270 Mbps,
                                    500 ft (150 m), 1.5 Gbps,
                                    330 ft (100 m), 3Gbps,
                                    Belden 1694A or equivalent

OUTPUT
Connector..............................BNC
Impedance.............................75 Ω
Amplitude.............................800 mVp-p±10%

Performance
Overshoot.............................<10% of amplitude
Jitter...................................<0.2 UI
Reclocking..........................270 Mbps, 1.483 Gbps, 1.485 Gbps,
                                    2.967 Gbps and 2.970 Gbps
Rise/Fall Time.......................<135 ps

Return Loss..........................>15 dB, 15 MHz ~ 1.5 GHz
                                    >10 dB, 1.5 GHz ~ 3 GHz

CONTROL INTERFACES
RS-232/422.............................DB-9F (×2)
LAN......................................RJ-45, 10/100 Mbps
C-BUS..................................BNC (×2, Loop-thru)
REF......................................BNC (×2, Loop-thru)

MECHANICAL
Width......................................19 in. (483 mm)
Height...................................1RU (44 mm)
Depth.....................................5.9 in. (150 mm)

ELECTRICAL
Power Supply..........................+24V DC power supply adapter
Power Consumption..................30 W

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