

Wideband Digital Multi-Rate Compact Routing Switchers HD200 16x16

DESCRIPTION

- ◆ The HD200 line provides high-quality signal routing up to 16x16 in 1RU.
- ◆ Supporting a mixture of almost any type of signal within the same frame, SDI, ASI, HD-SDI, 2HD.
- ◆ Employing the latest technology, HD200 allows many functionality at lower power consumption in a compact dimension.
- ◆ On-board analog and digital Sync module. Replaceable redundant pwr supply

FEATURES

- ◆ Expandable from 8x1 to 16x16 in 1RU.
- ◆ Routes signals from 3 Mb/s to 3 Gb/s.
- ◆ Digital video signals including SMPTE 310, SDI, ASI, HD-SDI, 2HD.
- ◆ Automatic re-clocking for standard digital signal formats.
- ◆ Automatic bypass of re-clocking for NON-standard digital signal formats.
- ◆ Automatic cable equalization for all frequencies.



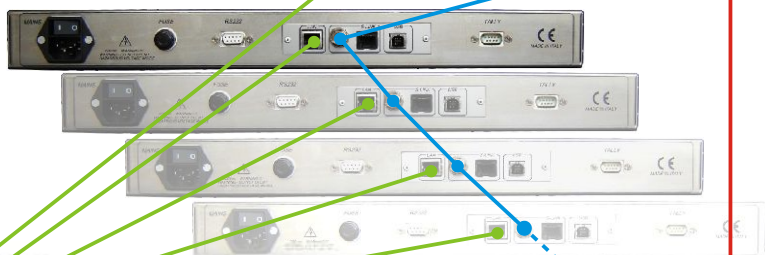
Rear panel



Coax S-LINK

Graphical User Interface (GUI)

Host Controller and Data-Logger



Remote Control Panel

Switch Ethernet



Control of HD200 Routing Switcher

HD200 routing switchers are controlled by means of CPU ARM7 type, so that a "master" controller is realized. This is necessary to realize the S-LINK protocol.

The serial protocol is a program area which covers the whole series of HD, CM and MD routing switchers and the following remote control panels: T3CSP, FMC, SBC, TCS_CTRL4 and PSPx.

The implemented protocol for this new series of devices allows to utilize different devices (routing switchers and keyboard) in a single "ring", achieved by means of coaxial connection between devices.

The ETHERNET connection allow:

1. the system configuration;
2. the bridge between S-LINK protocol and Ethernet;
3. the interface to remote control equipment (T2_ETH, FMC_ETH, etc...) and to fulfilment equipment (TCS_ETH, PSP_ETH);
4. the realization of matrix diagnostics.

HD200 Specifications

Inputs

Number of inputs: 16

Signal type:

- SMPTE 259M, 292M and 424M signal formats
- Will route ASI/DVB signals unaffected
- Will route most other <1 Vpp signals, 3 Mb/s to 3 Gb/s

Normal input level:

- 800 mVp-p ± 10%

Equalization:

Auto:

- 1,148 ft (350 m) for SDI bit rates to 270 Mb/s
- 460 ft (140 m) for HD-SDI bit rates to 1.5 Gb/s
- 295 ft (90 m) for HD-SDI bit rates to 2.9 Gb/s

Return loss:

- > -18 dB from 5 MHz to 1.5 GHz

Connector:

- 75 ohms BNC per IEC 169-8

Electrical & Mechanical

Power:

- Universal input
- AC: 90-250 VAC 47-63 Hz, 50W
- Redundant removable 60W power modules

Size:

- 1.74 in. x 19.00 in. x 11.81 in. (4.44 cm x 48.26 cm x 30 cm)

Weight:

- 1RU: 7.7 lb (3.5 kg) approx.

Operating temperature:

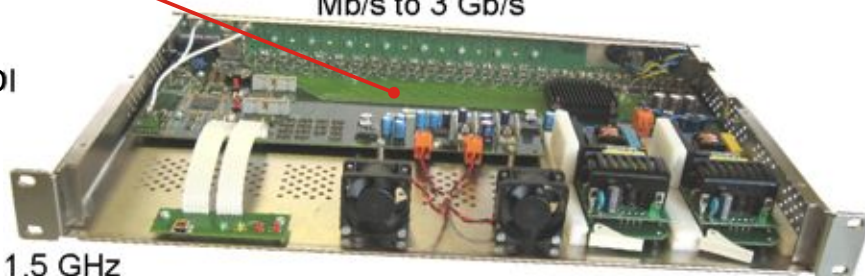
- 32° F (0° C) to 122° F (50° C) at 100% power rating

Cooling Forced air/convection.

HD200 Ordering information

- | | |
|---------------------|-----------------------|
| HD200 16x16: | 16 inputs 16 outputs |
| HD200 16x8D: | 16 inputs 8+8 outputs |

Single Board with redundant and removable power supply



Output

Number of outputs: 16 or 8+8

Signal type (option 1):

- SMPTE 259M and 292M signal formats
- Will route ASI/DVB signals unaffected
- Will route most other <1Vpp signals, 144 Mb/s to 1.5 Gb/s

Signal type (option 2):

- SMPTE 259M/292M and 424M signal formats
- Will route ASI/DVB signals unaffected
- Will route most other <1Vpp signals, 144 Mb/s to 3 Gb/s

Data rate:

- Follows selected input

DC offset:

- 0 V ± 0.5 V

Rise / fall times:

- 600 ps (measured at 20-80% amplitude) for 259M
- 150 ps for 292M and 424M signal rates

Overshoot:

- <10% of amplitude

Reclocking:

- Automatic for all standard SDI and HD-SDI clock rates
- Bypass mode for all non-standard clock rates

Normal output level:

- 800 mVp-p 10%

Jitter:

- < 0.2 U_{lpp} per SMPTE

Return loss:

- > -18 dB 5MHz to 1.5 GHz

Connector:

- 75 ohm BNC per IEC 169-8

Interfaces

- Type: **485** - coaxial or 8-pins RJ
- Type: **Ethernet** - 8-pins RJ - SNMP
- Type: **USB** - Mini USB B type

NOTE: Specifications are subject to change without notice