HSMX-2000A Multi-Format Routing Switcher

HSMX-2000A Multi-Format Routing Switcher can distribute various format/bit-rate of digital signals (143Mbps to 1.5Gbps). It is suitable for the signal distribution system which can distribute HD-SDI, SD-SDI, and TS signals with a single routing switcher.

Features

- Applicable for various bit-rate Signal; HD-SDI, SD-SDI and TS
  HSMX-2000A can distribute and re-clock various format/bit-rate of signals such as 1.485Gbps (HD-SDI), 270Mbps (D1-SDI, DVB-ASI, and SDTI), and 143Mbps (D2-SDI).

- Ability of Two Different Timing of V-Blanking Switching.
  HSMX-2000A has two reference signal inputs. With two different timing of reference signals, it can switch its cross-pints in two different timing of V-blanking.

- Compact Size of Shelf
  64 x 64 (6U), 128 x 128 (10RU) and 256 x 128 (18U) are in line-up.

- Flexible Configuration
  The number of both input and output of HSMS-2000A can be increased by 16. Low-cost input and output units for SD-SDI and TS are also available. The most suitable size of matrix can be easily composed.

- Redundancy
  Redundant power supply unit and redundant control unit are available as options.

It is controlled with BS-NET III (75Ohm-Coaxial LAN), so LAN control network can be easily composed.
HSMX-2000A Multi-Format Routing Switcher

Function

Automatic Cable Equalizing
HSMX-2000A has automatic cable equalizing in its inputs for more than 100m@1.485Gbps, and 250m@270Mbps of 5C-FB cable.

Automatic Re-clocking
HSMX-2000A re-clocks automatically its output signals whose bit-rate are 143Mbps, 177Mbps, 270Mbps, 360Mbps, 540Mbps, 1.485/1.001Gbps, or 1.485Gbps.

Monitoring
HSMX-2000A has offline input monitor, one per 32 output.

Composition

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum Size of Crosspoints</th>
<th>Height of Shelf</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSMX-2000 MTX256128</td>
<td>256 x 128</td>
<td>18RU</td>
</tr>
<tr>
<td>HSMX-2000 MTX128</td>
<td>128 x 128</td>
<td>10RU</td>
</tr>
<tr>
<td>HSMX-2000 MTX64</td>
<td>64 x 64</td>
<td>6RU</td>
</tr>
</tbody>
</table>

Specifications of input and output signals

<table>
<thead>
<tr>
<th>Signal Formats</th>
<th>Bit-rate</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD-SDI</td>
<td>1.485Gbps, 1.485/1.001Gbps</td>
<td>SMPTE-292M</td>
</tr>
<tr>
<td>SDI(NTSC-D2)</td>
<td>143Mbps</td>
<td>SMPTE-259M-A</td>
</tr>
<tr>
<td>SDI(PAL-D2)</td>
<td>177Mbps</td>
<td>SMPTE-259M-B</td>
</tr>
<tr>
<td>SDI(525D1,625D1)</td>
<td>270Mbps (NRZI)</td>
<td>SMPTE-259M-C</td>
</tr>
<tr>
<td>SDI(525p,525/625-16x9)</td>
<td>360Mbps</td>
<td>SMPTE-294M, 259M-D</td>
</tr>
<tr>
<td>SDI(525p)</td>
<td>540Mbps</td>
<td></td>
</tr>
<tr>
<td>DVB-ASI MPEG</td>
<td>270Mbps(NRZ)</td>
<td>DVB A010</td>
</tr>
<tr>
<td>SDTI</td>
<td>270Mbps (NRZI)</td>
<td>SMPTE-305M</td>
</tr>
</tbody>
</table>

General

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>100 to 240 ±10%V AC, 50/60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td></td>
</tr>
<tr>
<td>256 x 128</td>
<td>Approx. 1,600VA</td>
</tr>
<tr>
<td>128 x 128</td>
<td>Approx. 900VA</td>
</tr>
<tr>
<td>64 x 64</td>
<td>Approx. 500VA</td>
</tr>
<tr>
<td>Operation Temperature</td>
<td>0°C to 40°C</td>
</tr>
<tr>
<td>Dimensions 256 x 128</td>
<td>799 (H) x 480 (W) x 500 (D) mm</td>
</tr>
<tr>
<td>128 x 128</td>
<td>443 (H) x 480 (W) x 500 (D) mm</td>
</tr>
<tr>
<td>64 x 64</td>
<td>266 (H) x 480 (W) x 500 (D) mm</td>
</tr>
<tr>
<td>Input and Output Impedance</td>
<td>75 Ohm, unbalanced</td>
</tr>
<tr>
<td>Input and Output Return Loss</td>
<td>More than 15dB (5MHz to 1.485GHz)</td>
</tr>
<tr>
<td>Length of Cable equalizing</td>
<td>More than <a href="mailto:100m@1.485Gbps">100m@1.485Gbps</a>, and More than 250m@270Mbps (for 5C-FB cable, or equivalent)</td>
</tr>
</tbody>
</table>

Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

The colours in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.