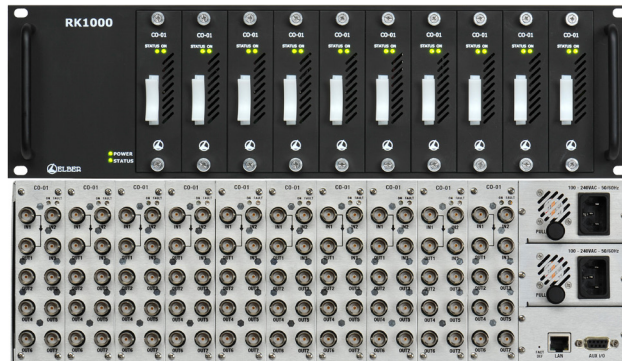
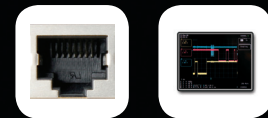


RK1000 DVB-ASI/SDI/HD/3G-SDI Change-Over



RK1000 r2k15

DESCRIPTION

The RK1000 can be used by broadcast operators in transmission networks for the DVB-ASI signal distribution over satellite or terrestrial networks as well in studio environments for the routing or the distribution of SDI/HD/3G-SDI/DVB-ASI signals. The device is composed by a basic 3U 19" chassis that can host up to 10 hot-swappable modules, allowing an easy maintenance and stock management. The back panel is composed of independent units according to the type and the quantity of modules installed; the panels are connected to an internal motherboard, as well as the front panel modules.

The change-over module, called CO-02, allows up to 3 inputs (Main, Back-up and Disaster Recovery) and has 7 outputs; in case of DVB-ASI configuration, the module operates a seamless switch between the main and the back-up input, evaluating the TS content regarding the TS Loss, Sync Loss, PAT Loss, Continuity Counter Error and TEI (each one can be enabled/disabled through the user interface). In case of 3G/HD/SD-SDI signals, the switch evaluates only the signal presence. The switch can be revertible or not revertible, automatic or forced. Additional features are embedded to improve flexibility and safe use. Each module can be configured as a matrix, where user can assign to each output connector the source selected between input 1, 2, 3 and switched signal. Furthermore, different back panels are available depending on the application; main input pass-through, last selected input pass-through, main and back inputs pass-through.

The management software offers a complete control of the device's parameters, using an intuitive user interface equipped with an http native web interface, developed with particular care for an easy and immediate use, and through SNMP.

FEATURES

- Modular Chassis 3U 19"
- Up to 10 hot-swap slots
- Active ASI/SDI/HD/3G-SDI distributor
- 3 inputs intelligent 3G-SDI and DVB-ASI Change-over
- 3G-SDI and DVB-ASI distributor and matrix
- Redundant hot-swappable power supply (AC)
- Web interface e remote control SNMP
- GPIO

SPECIFICATIONS

Change over HD:

Module name: CO-01
Input Interface: DVB-ASI/SDI/HD-SDI
Inputs: 3
Input Connectors: BNC(f) 75 Ohm
Output Interface: DVB-ASI/SDI/HD-SDI
Outputs: 7 (main pass-through)

Change over 3G:

Module name: CO-02
Input Interface: DVB-ASI/SDI/HD/3G-SDI
Inputs: 3
Input Connectors: BNC(f) 75 Ohm
Output Interface: DVB-ASI/SDI/HD/3G-SDI
Outputs: 7
Pass-through options: last selected
main and backup
Output Connectors: BNC(f) 75 Ohm

Change over Specifications:

Modality: Automatic (Change-over)

- With priority (reversible)
- Without priority (not reversible)

Forced (Selector)
Priority: Configurable
Switching criteria (DVB-ASI):

- PAT Loss
- TS Unstable
- Sync Loss
- Sync Unstable
- Transport Error
- Other on request

Switching criteria (3G/HD/SD-SDI):
Signal presence

Control:

Web browser (embedded http server, no additional software needed)
SNMP v2

Electrical:

Supply: 90-260 V~ 50/60 Hz IEC 320
DC 22 ÷ 65 V 2 pins connector
Consumption: 90 W

Mechanical:

Chassis: 3U Rack 19"
Dimensions: Width 482.6 mm
Height 130.8 mm
Depth 500 mm (without connectors)
Weight: 4 Kg

Environmental:

Operative temperature range: -10 ÷ 55°C
Relative Humidity: 0 - 95% non condensing

ORDERING INFO

Code	Description
RK1000/A	Basic chassis 3RU 19" for 10 plug-in boards, including SNMP and WEB interface (http native) - 3G version
CO-02	Plug in board for RK1000/A; DVB-ASI, 3G-SDI change-over, 3 inputs and 7 outputs (last-selected input loop-through), with matrix function.
CO-02b	Plug in board for RK1000/A; DVB-ASI, 3G-SDI change-over, 3 inputs and 7 outputs (main and backup input loop-through), with matrix function.
OPT.1000/AC/125W	Power Supply RK1000
RK1000	Basic chassis 3RU 19" for 10 plug-in boards, including SNMP and WEB interface (http native) - HD version
CO-01	Plug in board for RK1000; DVB-ASI, HD-SDI change-over, 3 inputs and 7 outputs (main input loop-through)

**Elber reserves the right to make changes to specifications of products described in this datasheet at any time without notice and without obligation to notify any person of such changes.*



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