

CLEBER-ASI Processing System



CLEBER-ASI R2K13

DESCRIPTION

Cleber is the 2013 new born from Elber R&D department; it offers a powerful, flexible and modular hardware and software platform for broadcasting and contribution networks where customers can install up to six boards with no limitation in terms of position or number.

This Cleber version includes some functions to manage and elaborate the ASI signal. The four functions of Cleber-ASI are: aggregator, de-aggregator, distributor and switch seamless.

The aggregator slots are two: the RMX-04, that allows aggregation of 4 ASI signals and provides 1 proprietary ASI output, and the RMX-14, that accepts up to 7 ASI inputs and provide 3 proprietary ASI outputs.

The de-aggregator slots are two: the DMX-04, that receives 1 proprietary ASI signal and disaggregate until 4 channels, and the DMX-14, that accepts 1 proprietary ASI input and disaggregates it to provide up to 9 ASI outputs.

For the ASI switches there are 3 different possibilities: AS-03, featuring 3 inputs and 2 outputs, AS-13, having 3 inputs and seven outputs, and AS-23, that is the double version of AS-03 (so that it can manage two different Transport Stream switches in the same slot). All versions of ASI switch have a signal pass-through, and implements the seamless switching and ASI selector functions.

The three slots for distribution, having a pass through output, are: AD-03, with 1 input and 4 outputs, AD-13 with 1 input and 9 outputs and AD-23, that is the double of AD-03 to manage 2 different ASI signals.

FEATURES

- Multi-Purpose Digital System
- ASI Aggregator
 - RMX-04: 4 IN, 1 OUT
 - RMX-14: 7 IN, 3 OUT (Double slot)
 - Up to 210 Mbit/s output bitrate
- ASI De-aggregator
 - DMX-04: 1 IN, 4 OUT
 - DMX-14: 1 IN, 9 OUT (Double slot)
- ASI Switch
 - AS-03: 2 IN, 3 OUT
 - AS-13: 3 IN, 7 OUT (Double slot)
 - AS-23: 2 IN, 3 OUT Double ASI (Double slot)
 - Packet by packet (188 bytes) alignment
 - 1 output is pass-through
- ASI Distributor
 - AD-03: 1 IN, 4 OUT
 - AD-13: 1 IN, 9 OUT
 - AD-23: 2 x (1 IN, 4 OUT)
 - 1 output is pass-through
- Web Interface, SNMP v2 and GPIO

SPECIFICATIONS

General

6 plug-in slots available
Board plug-in auto-detection

Control

Front panel (TFT touchscreen display)
Web browser (embedded http server, no additional software needed)
SNMP v2

GPIO

DMX-04:

Function: ASI de-aggregator
Input: 1 ASI composite (BNC 75 Ω)
Output: 4 DVB-ASI (BNC 75 Ω)
Channels: 4

DMX-14:

Function: ASI de-aggregator
Input: 1 ASI composite (BNC 75 Ω)
Output: 9 DVB-ASI (BNC 75 Ω)
Channels: 7

RMX-04:

Function: ASI aggregator
Input: 4 DVB-ASI (BNC 75 Ω)
Output: 1 ASI composite (BNC 75 Ω)
Channels: 4

RMX-14:

Function: ASI aggregator
Input: 7 DVB-ASI (BNC 75 Ω)
Output: 3 ASI composite (BNC 75 Ω)
Channels: 7

AS-03:

Function: ASI Switch
Input: 2 DVB-ASI (BNC 75 Ω)
Output: 3 DVB-ASI (BNC 75 Ω)

AS-13:

Function: ASI Switch
Input: 3 DVB-ASI (BNC 75 Ω)
Output: 7 DVB-ASI (BNC 75 Ω)

AS-23:

Function: ASI Switch
Input: 2 x 2 DVB-ASI (BNC 75 Ω)
Output: 2 x 3 DVB-ASI (BNC 75 Ω)

AD-03:

Function: ASI Distributor
Input: 1 DVB-ASI (BNC 75 Ω)
Output: 4 DVB-ASI (BNC 75 Ω)

AD-13:

Function: ASI Distributor
Input: 1 DVB-ASI (BNC 75 Ω)
Output: 9 DVB-ASI (BNC 75 Ω)

AD-23:

Function: ASI Distributor
Input: 2 x 1 DVB-ASI (BNC 75 Ω)
Output: 2 x 4 DVB-ASI (BNC 75 Ω)

Electrical

Supply: 100-240 V ~ 50/60 Hz IEC 320
2 pins plug: - DC 22 ÷ 65 V
- DC 10 ÷ 36 V

Power consumption:

Basic: 4.5W
6 slots: 120W

Mechanical

Chassis: 1U Rack 19"
Dimensions:
Width 482.5 mm
Height 43.65 mm
Depth 399.47 mm
380.65 mm (without connectors)
357.80 mm (without handles and connectors)

Weight:

Basic: 2.5 Kg
Max: up to 7 Kg (depending on number of slots)

Environmental

Operative Temperature Range: -10 ÷ 55°C
Relative humidity: 0 - 95% non condensing

ORDERING INFO:

Code	Description
RK610	Modular chassis 1U 19", 6 plug-in slot, web interface, SNMP
DMX-x4	De-aggregator slot
RMX-x4	Aggregator slot
AS-x3	ASI Switch
AD-x3	ASI Distributor
OPT-RK610-AC	AC PSU option for RK610
OPT-RK610-AC-DC-10-36	PSU option AC and DC 10-36 V for RK610
OPT-RK610-AC-DC-22-65	PSU option AC and DC 22-65 V for RK610
OPT-RK610-DC-10-36	PSU option DC 10-36 V for RK610
OPT-RK610-DC-22-65	PSU option DC 22-65 V for RK610

"x" can be 0, 1 or 2 according to technical specification desired

**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.*



ELBER Srl. Via Pontevecchio, 42W - 16042 Carasco (GE) Italy
Phone +39.0185.351333 fax +39.0185.351300
www.elber.com - elber@elber.it