

## CLEBER-XS4 DVB-S/S2 professional receiver



CLEBER 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 limitations in terms of position. Based on a Linux embedded OS, the Cleber detects the presence of the boards and shows the related control interface to the user, either through web GUI and Touchscreen TFT display. Two power sources (AC and DC) are always available; for the DC source, customer can chose between 22-65 Vdc or 10-36 Vdc for site or DSNG applications. Thus Cleber can host any combination of boards, particular applications and use cases can be considered and described separately. For satellite DVB-S2 contribution to transmitting sites in a TV or radio network, a multistream or single stream receiver is available; the XS4 board, equipped with one L-band input and four ASI outputs. The receiver can be connected with any kind of LNB and it is protected against overvoltage. The DVB-S2 receiver features a very low end-to-end delay and reduced overall jitter even in multistream configuration (it supports up to 4 ISI simultaneous demodulation); all these features make the CLEBER-XS4 the best solution for distribution and contribution networks to feed TV and Radio Transmitters. A very intuitive WEB interface lets the user configure and monitor the apparatus very quickly, without requirement of special software.

### FEATURES

- Self-contained compact solution (1U RACK 19")
- Six plug-in slots available for any combination of boards
- DVB-S/S2 Receiver,
- L-band input
- Single stream and Multi stream
- 4 DVB-ASI outputs
- TFT front panel control
- Embedded Linux OS
- AC and DC inputs
- WEB interface, SNMP v2 and GPIO

## SPECIFICATIONS

### General

**Standards:**

ETSI EN 300 421 (DVB-S)  
ETSI EN 302 307 (DVB-S2)

**Input connector:**

F-type connector 75 ohm

**RF Input:**

L-band with LNB control

Frequency range: 950-2150 MHz

RF input level: 40 to 100 dBuV

Symbol Rate: 1-45 Msymb/s (DVB-S)  
2-45 Msymb/s (DVB-S2)

FEC: all (auto)

Constellation: QPSK, 8PSK, 16APSK, 32 APSK

**DVB-S2 support:**

Mode: CCM, VCM, ACM, Normal/Short FEC frames

Base-Band header processing: ISSY short/long, NPD

Mode Adaptation: multistream reception with ISI field

PLS: Physical Layer Scrambling support ('n' sequence number)

**Output:**

Connector: 4 x BNC 75  $\Omega$ ASI

Format: DVB-ASI 188 bytes packet

### Control

**Front panel** (TFT touchscreen display)

**Web browser**

(embedded http server, no additional software required)

**SNMP v2**

### Electrical

**Supply:**

100-240 V~ 50/60 Hz IEC 320

2 pin plug:

• DC 22  $\div$  65 V

• DC 10  $\div$  36 V

**Power consumption:**

Base chassis: 4.5W

**Maximum consumption:**

120 W (six boards installed)

### Mechanical

**Chassis:**

1U Rack 19"

**Dimensions:**

Width

482.5 mm

Height

43.65 mm

Depth

380.65 mm

(without connectors)

357.80 mm

(without handles and connectors)

**Weight:**

Base chassis: 2.5 Kg

Maximum up to 7 Kg

(depending on number of slots)

### Environmental

**Operative temperature range:** -10  $\div$  55°C

**Relative Humidity:** 0 - 95% non-condensing

## ORDERING INFO

| Code  | Description  |
|-------|--|
| RK610 | Modular chassis 1U 19", 6 plug-in slot, power supply AC+DC, web interface, SNMP            |
| XS4   | DVB-S/S2 receiver plug-in board for RK610, Single/Multistream, L-Band input, 4 ASI outputs |



*\*Elber reserves the right to modify this datasheet without notice.*

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