**Overview:**

The CA02 Stand Alone Scrambler (with two network Ethernet ports) can simulcrypt scramble the input stream, and the embedded control word generator can transmit the constant or variable control word to scrambler the input transmitting stream. The internal simulcrypt synchronous controller can transmit the control word and the access conditions to exchange the information with the ECMG. It has two network Ethernet ports which have different function. One is used to network management and the other is to connect to the CAS, so that the whole operation can easily separate the management and physical business. When the scrambler works with the CA system, it can easily help the decoder to correctly decrypt the control word, and decode the scrambling stream by properly controlling the CP. Its high compatibility and integrate design make this device widely being used in the digital TV scrambling field.

**Features:**

* Adopts the general scrambling system description ETR289
* It can DVB scramble the specific program or the basic transmitting stream
* Complies with the DVB common scrambling algorithm, supports the simulcrypt mode, be compatible with a variety of CV systems.
* Analysis the overall MPEG stream
* Re-treating the PSI/SI
* Protecting the input and output ASI stream channel
* Supports four different CAS system simultaneously
* Supports huge buffer memory, and resists the unexpected code stream
* Supports the bit-rate self-adoption, the re-adjustment and the re-mark of PCR
* Real-time effective bit-rate monitoring
* The database format: 188/244 bytes
* Monitoring the work state by network system
* PCR adjust
* Supports the CAS remote connection scrambling

**Technical Specification**

|  |  |
| --- | --- |
| Input interface | 1 DVB/ ASI(one for reserve) |
| Output interface | Two DVB/ ASI |
| The input loop | Two DVB/ASI |
| Output bit-rate | 1~54mpbs |
| Management  | Two Ethernet ports 10/100M |
| General  | Dimension | 482mm×410mm×44mm |
| Weight | 3kg |
| Work temperature | 0~45℃(working )，-20~80℃(storage) |
| Power supply | AC 110V±10%，50/60Hz or AC 220V±10%，50/60Hz |
| Power consumption | 14W |