

Professional Conditional Access Modules



Aston Pro
Solutions

PROFESSIONAL CONDITIONAL ACCESS SOLUTIONS

 **aston**[®]
Satellite Television Systems



Aston, a leading provider of MPEG technologies for the global Digital TV market introduces its new hardware range of Conditional Access Module for use with a professional decoder or transport stream descrambler to decrypt television broadcast signals. This new module will widen cable, terrestrial and satellite operators' horizons.

In addition to flexibility for the user, this new secured hardware of our conditional access modules offers a high degree of protection against piracy and CA modification. They are currently being adopted by a large number of operators worldwide as a cost-effective way to deliver new digital Pay-TV content and services.



PROFESSIONAL CONDITIONAL ACCESS SOLUTIONS



Application

- ▶ Descrambling of PAY TV content in a professional environment

Key Features

- ▶ **Cost effective solution :**
 - Multi-services: Full transport stream descrambling (up to 32 PIDs)
Multi PMT handling
 - Dual services: descrambles up to 2 services
- ▶ **Reliability :**
 - Low power consumption
 - Software upgrade by MPEG stream
- ▶ **Security :**
 - Secure loader
 - Fast & addressable download

*Sources:
Satellite, Cable,
Terrestrial, Telecom....*

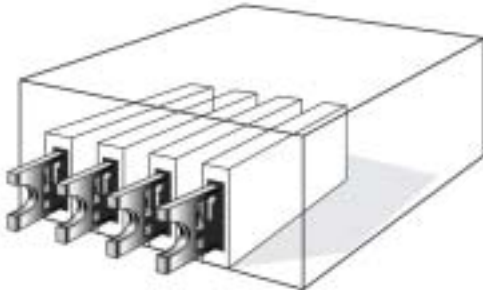


PROFESSIONAL CONDITIONAL ACCESS SOLUTIONS

Optimise your descrambling capacity

Contents: TV, Radios, Feeds....

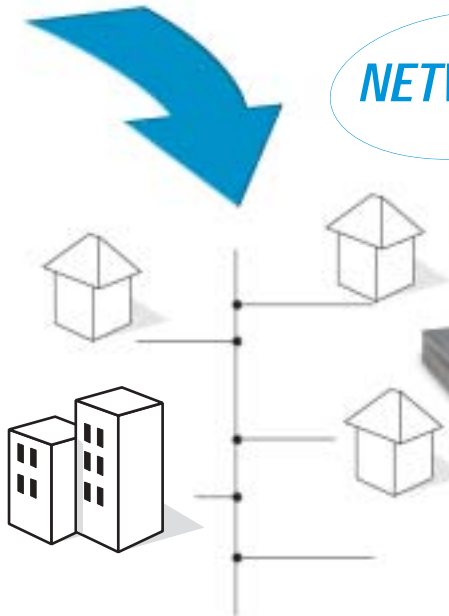
Central head end



*Descrambles
up to 12 TV channels
using only one
module!*



NETWORK



End user

Aston offers the end user,
a reliable addressable and
secure solution for Pay TV.

Technical Characteristics

PMT Handling:

- Multi PMT handling
- Fully compliant with all PMT handling commands (Only, add, remove, delete, first, more, last)

Filtering:

- Up to 28 filters shared between EMM & ECM

Descrambling:

- Full transport stream descrambling
- 32 pairs of control words: odd, even, odd even

Smart Card:

- Full ISO 7816-3/T = 0 compliant (including PPS negotiation)
- T = 1 and other card specific protocols
- Fast card speed (4.5 Mhz) with ultra fast drivers

Standard:

- Plug and Play
- DVB Common interface standard and PCMCIA EN50221 compliant
- Compatible with DVB MPEG 2: Satellite, Terrestrial and Cable Television standards
- Compliant with subscription, pre-book mode PPV and Cam lock (depending on CAS)

OSD:

- DVB CI low level MMI compliant
- User friendly and hierarchical OSD
- Multilingual OSD (French, German, English, Spanish, Italian, Dutch, Finish, Swedish...)
- Maturity rating function
- Auto close parametrable CA message

Upgrade:

- From MPEG stream
- Typical download time: 5 minutes
- Download speed: from 50 Kbits to 2 Mbits per second
- Download modes: 3 types
- Addressable download

Conditional Access:

- Major CA available*

Security:

- Secure loader - 128 Bytes RSA private compression Algorithms
- Secure update by MPEG stream
- Individual addressing by secure device
- CA dedicated non modifiable type
- Flash memory piracy protected
- Unique and protected serial number

Electrical characteristics:

- Power supply 5V
- Low power consumption: less than 500mW
- FLASH: 2 MBytes
- RAM: 2 MBytes

Physical characteristics:

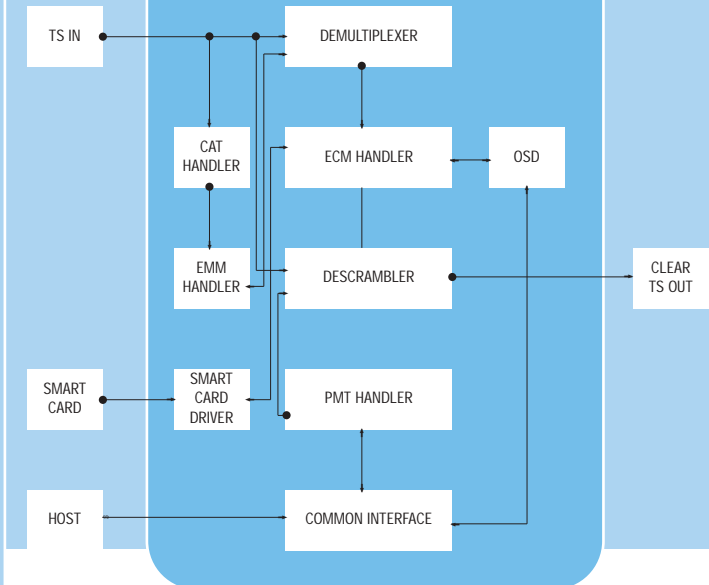
- PCMCIA type 2



* Please contact us for availability.

NB: Specifications may change at any time without prior notice.

Fonctional block diagram



To Find out more about
our professional solutions

InfoNet

www.aston-france.com

Contact: infopro@aston-france.com

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ASTON GROUP

151 AVENUE GALLIENI - 93177 BAGNOLET CEDEX - FRANCE

TEL.: +33 (0)1 48 97 32 64 - FAX: +33 (0)1 48 97 32 62