



CHAMELEON

Technical Specification



CHAMELEON

Single Hardware Headend

The CHAMELEON product line is the first ever to cover almost every need for Cable-TV and SMATV distribution with only one hardware. The different inputs and outputs are defined by software and hardware options and all software options can be updated

any time. The CHAMELEON includes receivers for DVB-S/S2, DVB-T/T2 and DVB-C, furthermore it includes decoding of MPEG-2 and MPEG-4 video formats as well as it supports MPEG, AAC HE and AC-3 audio decoding. Remultiplexing is just a mouse click away.

CHAMELEON OVERVIEW



Inputs

The CHAMELEON has dual independent DVB tuners (S/S2, T/T2, C), GigE IP inputs and ASI inputs.



Processing

CI decryption, remultiplexing, PSI/SI regeneration, encryption and MPEG decoding.



Outputs

Digital RF modulation in DVB-T, DVB-C and DTMB. Analogue RF in PAL and SECAM, GigE IP outputs, ASI outputs and SDI outputs.



Control and Management

Graphical User Interface for easy set up of complex systems. Simple handling of service remultiplexing and automatic PSI/SI regeneration.



PSI/SI and remultiplexing

Remultiplexer with multiple inputs from tuners, IP and ASI. Multiple TS outputs to modulators, IP and ASI.

PSI/SI analysis and regeneration. PID dropping and PID remapping.

Power Supply: 12 VDC nom. (9-14 VDC)

Power consumption: Typical 15 W, max 18 W

Dimensions: 230x105x40 mm (excl. connectors)

Weight: Approx. 640g

Controller: Embedded web server, SNMP, CLI

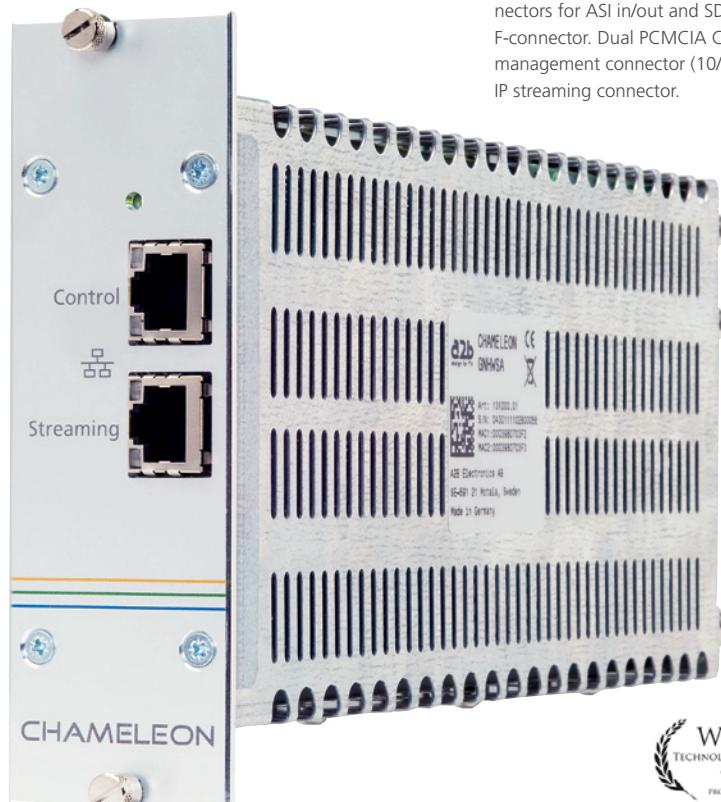
Op. temperature: 5°C to 45°C

Nominal temp. range: 15°C to 35°C



Connectors

Dual RF tuner F-connectors, dual BNC connectors for ASI in/out and SDI out. RF out F-connector. Dual PCMCIA CI slots. RJ45 IP management connector (10/100) RJ45 GigE IP streaming connector.



AVAILABLE SOFTWARE OPTIONS

| INPUT | PROCESSING | OUTPUT | MISCELLANEOUS |
|--|---|---|--|
| DVB-C Receivers GNC, GNDC | Common Interface Decryption GNCI, GNDCI | DVB-C Modulators GNCMOD, GNDCMOD, GNTCMOD, GNQCMOD | System Management GNSYSMG |
| DVB-S/S2 Receivers GNS2, GNDS2 | Simulcrypt Scrambling GNSCR | J.83 Annex B / C Modulators GNJ83B, GNDJ83B, GNJDJ83C, GNQJ83C | Service License Agreement GNM1, GNM3 |
| DVB-T/T2 Receivers GNT, GNDT, GNT2, GNDT2 | Remultiplexing GNMUX, GNSYMUX, GNPSI | DVB-T Modulators GNTMOD, GNDTMOD | All SW Options GNALL |
| T2-MI input GNT2MIDE, GNT2MIPLP | Redundancy GNRED | Analogue Modulators GNVMOD, GNDVMOD | |
| ASI input & output GNASI, GNDASI | Dolby AC3 GNDOL | FM Radio GNDFM, GNOCTFM | |
| IP Streaming input & output GNSTR, GNSTREC | | DTMB Modulator GNDMOD | |
| | | SDI & HD-SDI output GNSSDI, GNDSDI, GNHSDI | |
| | | ASI input & output GNASI, GNDASI | |
| | | IP Streaming input & output GNSTR, GNSTREC | |

RELATED HARDWARE

CHAMELEON GN40



- 3 HU 19 inch subrack for up to 10 CHAMELEON modules
- 1 HU 19 inch PSU and fan unit

CHAMELEON GN50



- 3 HU 19 inch subrack with embedded GigE switch
- Fitting up to 10 CHAMELEON modules
- Embedded fans and PSU, optional redundant PSU
- N+1 redundancy (SW option GNNRED)

CHAMELEON GN20 B/R



- 1 HU 19 inch subrack for 1 or 2 CHAMELEONS
- Embedded PSU and fan
- Dual redundant PSU (GN20 R)

CHAMELEON GN01



- Wall mount subrack for 1 or 2 CHAMELEONS
- Embedded PSU and fan

CHAMELEON DC28 & DM17



- DC28**
- 4 x 7 way input signal splitter
- DM17**
- 2 x 5 way output signal combiner

MPEG Encoder GNHWENCW



- Encoding of 1 HD-SDI or 2 SD-SDI / analogue video signals
- Gigabit Ethernet and ASI output
- Output: MPEG-4 SD/HD
- Control and management via web UI



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