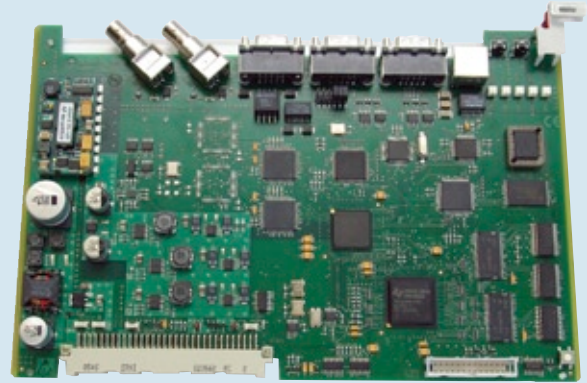


Video Decoder



Video Encoder



XMP1 Video Interface

Video Encoder/Decoder

The Transport Gateway XMP1 provides with the Video Encoder/Decoder the possibility to connect analog cameras for surveillance.

- 2 different modules; Video Encoder and Video Decoder
- 2 video interfaces per module, data transmission via E1
- Data rate 64 kbps to 1.920 kbit/s in steps of 64 kbps
- Cascading of several modules without using XMP1 cross connect capacity.
- Video coding according to ITU-T Rec. H.261
- Bi-directional camera control over video signal
- Managed by ServiceOn XMP1 (SOX) and ServiceOn Access (SOA)
- Future-proof by use of DSP technology

The modules Video Encoder and Video Decoder consists of two live encoder respective decoder according to ITU-T H.261 with FULL-CIF resolution (288 lines x 352 pixels) and 25 frames per second with a data rate up to 2 Mbps (30 x 64 kbps). A data channel enables the camera to be remotely controlled. The Encoder has 2 video inputs for direct connection of cameras, the Video Decoder has 2 outputs for connecting monitors.

The optimized compression quality of H.261 for E1 signals enables the operator to cascade video signals of several modules into a single E1 for economic and cost-effective transmission of video data. The cascading doesn't effect cross connect capacity of XMP1.

The video modules can be equipped in any vacant slot and integrated in any network scenario.

XMP1 offers the following modules for transmission of the video signals:

- SDH , Ethernet over SDH
- iSHDSL modules
- E1 Port modules for grooming and consolidation of other 64 kbps services

| Technical Data | |
|--|---|
| Video-Interface | |
| – Video input (Encoder) | 2 x CVBS 2 x BNC 75-Ohm |
| – Video output (Decoder) | 2 x CVBS 2 x BNC 75-Ohm |
| Video Encoder 1 and 2 / Video Decoder 1 and 2 | |
| – Coding algorithm | ITU-T Rec. H.261 |
| – Picture format | 288 lines x 352 pixels (FULL CIF) |
| – Refresh rate | max. 30 frames/sec depending on data rate (nx64k) and image content |
| – Data rate | 64 kbps to 1,920 kbps in 64 kbps steps |
| E1 – Interface | |
| – Data rate | 2.048 Mbps 120 Ohm bal. or 75 Ohm unbalanced |
| – Level | 6dB Interface (inhouse) |
| – Clock | System internal |
| – Connector | 9-pin SUB-D |
| Data Interfaces 1 and 2 | |
| – Quantity | 2 per Module |
| – Interface | RS232 or RS485, configurable |
| – Format | 1 Start bit, 8 Data bits, 1 Parity and 1 Stop bit |
| – Data rate | 1200 bps, 2400 bps, 4800 bps, 9600 bps, 19200 bps |
| – Connector | 2 x 9-pin SUB-D |

The end-to-end management platforms ServiceOn XMP1 (SOX) and ServiceOn Access (SOA) fully supports the configuration and monitoring of the XMP1 video interfaces and XMP1 networks.

Local management is supported by LCT.

| | |
|--|---|
| Displays | |
| – 3 LED for Diagnostic | Power (green), Connect (yellow), Error (red) |
| Power Supply | |
| – Voltage | -48/-60 VDC (-36 ... -75V) via XMP1 backplane |
| – Power consumption | 10W typically |
| Management | |
| – ServiceOn XMP1 (SOX) or ServiceOn Access (SOA) | |
| Environmental Conditions: | |
| – Storage: | ETSI EN 300 019-1-1 Class 1.2 (-25 < Temp < 55°C) |
| – Transport: | ETSI EN 300 019-1-2 Class 2.1, 2.3 (-25°C < Temp < 70°C) |
| – Operation: | ETSI EN 300 019-1-3 Class 3.2 enhanced (-5°C < Temp < +55°C) |
| – Safety: | EN 60950-1, EN 41003 |
| – EMC: | EN 55022 Class B, EN 55024, ETSI EN 300 386, EN 50121-4, DIN EN 61000-6-2 |