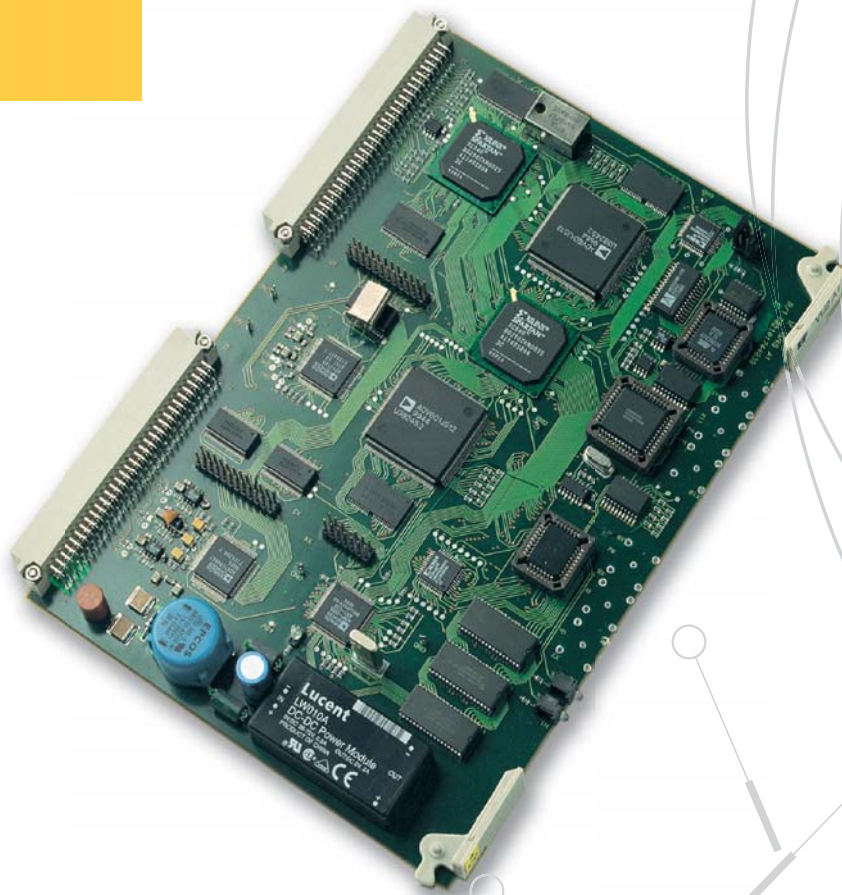


SparkLight ADM

# VU2

## Tributary unit for video signal transmission



The VU2 plug-in unit is one possible tributary unit of the SparkLight ADM family. It enables direct insertion of a video signal into a VC3 SDH container. With this solution, the most efficient of transmission paths is achieved. All the advantages of the SparkLight ADM optical system and SparkView network element management system are applied to transmission of video signal.



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The unit contains a PAL standard single video input and output. Optionally, two inputs and two outputs, digital interface and audio channels are available. Digital compression of the video signal is performed by wavelet technology. This is price effective and, technically, a quality solution in comparison to other compression technologies. Wavelet transformation enables the best possible quality of frames transmission, which is a desirable characteristic especially in the case of transmission of separate pictures as well as in the case of video signals recording. The VU2 unit has a very wide range of applications: from TV production, where studio quality is required, to the video supervision of infrastructure, power production, distribution and other important sites.

The data transmission bit rate and, consequently, compression rate is adjustable by software from 2 Mbit/s to 46 Mbit/s. This compression is nearly loss-free. Software adjustment of the number of transmitted (or omitted) frames enables additional optimization of transmission path and quality, especially at high compression rates.

## Technical data

### VU2

Analogue video interface	PAL aggregate video signal Recommendation ITU-R BT.472-3 Option RGB/YUV
Digital video interface	SDI 270 Mbit/s including audio signal Recommendation ITU-R BT.656 and BT.601
The number of on-unit interfaces	2
Picture transmission	Compression according to WAVELET technology
Transmission bit rate	Adjustable 2 048-46 656 kbit/s, resolution 2 048 kbit/s
The number of transmitted frames per second	Adjustable 25-0.25
The number of omitted frames	Adjustable 0-99
Analogue audio interface	Recommendation ITU-R BS.644-1 and BS.468-4
Digital audio interface	Standard AES/EBU (IEC-958)
The number of on-unit audio interfaces	2x stereo or 4x mono
Voice transmission	Sampling 48 kHz/18bit - without compression
Power supply	-40.5 V to - 72 V (ETS 300.132),
Power consumption	< 8 W
Dimensions	2E
Climatic operating condition	ETS 300.019 class 3.1
Management	SparkView, LED diodes on the unit

### ORDER DATA

VU2 A1	Video unit 1x PAL input 1x PAL output
VU2I A1	Video unit 2x PAL inputs
VU2O A1	Video unit 2x PAL output
VU2x/D A1	Video unit interface SDI
VU2x/xA A1	Video unit with analog audio channels
VU2x/xE A1	Video unit with digital audio channels

The subject can be changed without notice.



**Iskra**  
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