



## VNS® 102v2

MPEG-4 "advanced" video codec

### Highlights:

- parallel use as video encoder / decoder
- dual streaming possible
- 2 CVBS inputs
- MPEG4 simple and advanced simple profile for high image quality with low network load and lower recording volume (standard conform ISO 14496-2)
- wide range of ambient temperature (board temperatures -40 °C ~ +85 °C max.) for outdoor and indoor applications
- digital comb filter for all video inputs
- 0.1fps up to 25 fps
- latency < 140 ms at D1, < 120 ms at 2CIF
- manipulation-proof through VSID (Video Source Identification)
- optimisation of network performance through IP burst shaping
- no vulnerability to thermal fluctuation, no electrolytic capacitor
- also available as 3RU installation kit
- high range of operating voltage: 9...32V
- lip-synched, bi-directional stereo audio interface with symmetric connection technology
- dynamic bandwidth management
- possible compression stages: CBR, VBR and ABR

Parallel use as  
**En- and decoder**

**Dual streaming**

**-40°C up to +85°C**

**2 CVBS**    **MPEG-4**  
ASP / SP

**0.1 fps - 25 fps**

**140 ms**  
at D1

**120 ms**  
at 2CIF

**D1**

**VSID**

**CBR**

**VBR**

**ABR**

**DESIGNED FOR**  
**high-end solutions**



Technical data		VNS® 102v2
Order number:	943522190600	
<b>Hardware</b>		
Video input:	1 or 2 (C)VBS 1 Vpp/75 Ω, each with one second virtual input	
Video output:	1 or 2 (C)VBS 1 Vpp/75 Ω, depending on configuration	
Alarm input:	2 (electrically isolated)	
Alarm output:	2 (electrically isolated)	
Serial interfaces:	2 x RS485 with ESD surge protection Free programmable end device control via RS485 (transparent/multidrop2-/4 wire) Latency ≤ 10 ms	
Network:	1 x LAN 10/100 MBit/s autosensing/manual configuration, also suitable for DSL, UMTS, ISDN, PSTN, GSM	
Audio input:	1 x stereo, lip-sync	
Audio output:	1 stereo (lip-sync ± 50 ms)	
<b>Video specification</b>		
Video standard:	PAL, NTSC	
Video compression:	MPEG-4 advanced simple profile and MPEG-4 simple profile (ISO 14496-2)	
Compression modes:	CBR, ABR, VBR	
Maximum resolution:	Full D1 (720x576 px), 2 CIF, CIF, QCIF	
Maximum frame rate:	0.1 - 25 fps (frames per second)	
GOP standard:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 25, 50 I, P, B-FRAMES	
Transmission rate:	10 kBps - 15 MBps	
Bandwidth management:	yes	
Minimum latencies:	hardware encoder -> hardware decoder < 140 ms at D1, < 120 ms at 2CIF hardware encoder -> software decoder < 140 ms at D1	
OSD:	date, time, text, water mark, audio level, detection: semi-transparent chroma keyings	
Court-type evident video marking:	date, time, source ID, IP address, Codec serial number	
<b>Audio specifications</b>		
Audio compression:	PCM/ IMA-ADPCM	
Sampling rates:	8, 16 and 32 kHz	
<b>Functions</b>		
Internal memory:	128 MB	
Pre/post alarm memory:	approx. 85 MB RAM (up to 2x video + 1x audio), up to 20 events	
Supported network protocols:	UDP, TCP, IP V4, IGMP v2, ICMP, ARP, DHCP, HTTP/1.0, SNMPv1-Traps, SNTpv4, FTP, RTP, Unicast stream control, SSDP	
Remote configuration:	Web-Interface (disengageable), p.o.s.a. management software	
Remote update:	Webserver, FTP (disengageable), p.o.s.a.	
Integration in management system:	yes	
Access control:	yes	
Control:	HTTP-Server (disengageable), PRHP (Plettac Remote Host Protokoll)	
Live/Replay:	with PC-Software (p.o.s.a. management system, ActiveX, Hardware	
Menu language:	english	
Event messages:	LAN SNMP traps	
Max. number of units:	unlimited	
Power supply:	9...32 V (internal power pack), approx. 6 W	
MTBF:	Telecordia 1: approx. 360.000 h at +40 °C MIL-HDBK-217: approx. 120.000 h at +40 °C	
Dimensions [mm]:	129 (3RU) x 35 (7HP) x 165	