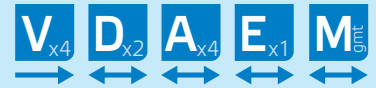


Four channel video processor

MPC-E4 is a high performance, stand-alone, temperature hardened network video processing product encoding real time video in mission critical applications for customers in Transportation, City Center Monitoring, and Corporate Security



MPEG-4 / MJPEG / MPEG-2

Teleste’s MPC-E4 is a perfect choice for IP networks as well as for a wide range of optical networks allowing easy migration from legacy fibre modem based systems towards modern IP based CCTV networks.

MPC-E4 is a versatile, temperature hardened video processing product that can be harnessed with four video inputs, 2-port terminal server, four bi-directional audio and one Fast Ethernet interfaces. The video processing is performed on software and can perform flexibly video encoding and analysis. The two built-in EIA RS data channels provide multi-vendor PTZ camera

control through Ethernet network either from keyboard controller or from video management software. Beside standard copper interface the support for SFP plug-in optics makes MPC-E4 suitable for deployment in a wide range of optical networks.

The video streams from MPC-E4 can be viewed from analog CRT or LCD monitors using MP-X decoders. Alternatively the video can be viewed by using software tools from video management system or by using standard video decoding software. The solid state MPC-E4 is a cool runner having industry leading figures

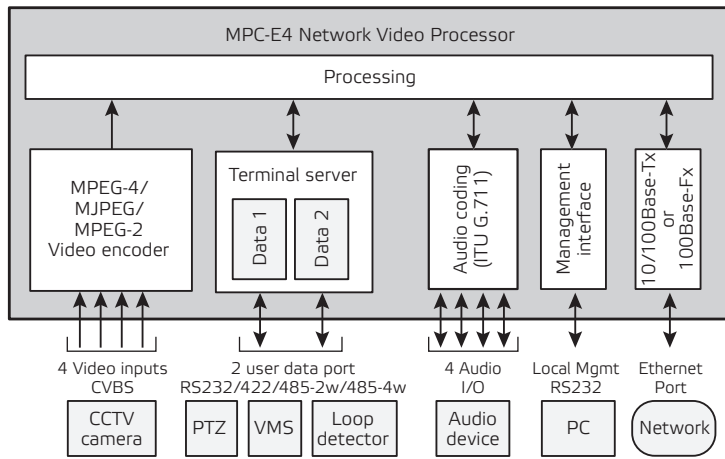
in terms of power consumption per video channel. Low cost of ownership is further emphasized by upgradeable firmware enabling easy introduction of new features on existing hardware.

With unparalleled analog video performance and mission-critical application optimized encoding algorithm, MPC-E4 is the industry leader in video encoding for surveillance applications. It gives you the touch and feel of traditional analogue systems while providing the flexibility and manageability provided by today’s Ethernet networks.

Features

- DVD quality video
- ISO/IEC compliant MPEG-4, MJPEG and MPEG-2 video
- Low latency
- Multiple encoding profiles
- Multi-stream support
- JPEG image capture
- Bi-directional serial data and audio
- SFP optics support
- Unicast and multicast support
- SAP and NTP support
- Feasible for temperature hardened operation
- Low power consumption

Block diagram



Technical specifications (Typical values unless otherwise stated, * = define when ordering, ** = optional, *** = ordered separately, **** = from SW 4.3.x onwards)

Video			Ethernet Protocols		
Number of inputs	4 CVBS	PAL/NTSC	Video/Audio/Data	RTP, UDP, TCP, IP, SAP	
Nominal level	1.0 Vpp		Management	SNMPv2, HTTP, DHCP, SSH, SSL, Telnet	
Input impedance	75 ohms		Generic	ICMP, IGMPv3, ARP, NTP, FTP	
Number of encoding profiles	8		SFP Optics **		
Number of output streams	5 per profile	multicast and/or unicast	MMF 1310 nm	2 km	2 fibres
Encoding	ISO/IEC 14496-2	MPEG-4 SP L5	SMF 1310 nm	30 / 60 km	2 fibres
	ISO/IEC 13818-2	MJPEG	SMF 1550 nm	20 / 100 / 120 km	2 fibres
	ISO/IEC 13818	MPEG-2 MP@ML **	CWDM (ITU G.694.2)	100 km	2 fibres
Resolution	QCIF, CIF, 2CIF, 4CIF, ½D1, D1	MPEG-4, MPEG-2 **	BIDI SMF 1310/1550 nm	25 / 60 km	1 fibre
	QCIF, CIF, 2CIF, 4CIF	MJPEG	Connector	LC	100Base-Fx
Frame rate (fps)	1...25 PAL, 1...30 NTSC	MPEG-4, MJPEG	Management		
	25 PAL, 30 NTSC	MPEG-2 **	WebUI	local via Ethernet port, remote via network	
Output bit rate (adjustable)	9.6 kbps...8 Mbps	MPEG-4	SNMP	remote via network	
	9.6 kbps...8 Mbps	MJPEG	CLI	local via management port, remote via telnet	
	128 kbps...8 Mbps	MPEG-2 **	Software update	local or remote	
Performance (max) 25/30fps	MPEG-4	4 x 2CIF / 2 x 4CIF/D1	Status indicators	front panel leds	
	MPEG-2	2 x D1	General		
	MJPEG	4 x 4CIF/D1	Supply voltage	10.5...25 V DC	
Latency	< 150 ms	encoding - decoding	Power consumption	6.6 W	
JPEG capture	8 (one per profile)	adjustable capture rate	PSU connector	2-pin removable screw terminal	
Motion detection	yes		Dimensions (H x W x D)	80 x 130 x 130 mm (3.1 x 5.1 x 5.1")	
Text overlay	yes		Weight	1.3 kg (2.9 lb)	
Transport	RTSP ****/RTP/UDP/IP multi/unicast	MPEG-4	Housing	Stand-alone, DIN rail mount **	
	RTP/UDP	MJPEG	MTBF	> 150.000 h	HRD5
Connector	TS/UDP/IP, ES/UDP/IP, ES/RTP/UDP/IP	MPEG-2 **	Operating temperature	-34...+74 °C (-29...+165 °F) temperature hardened	
	adjustable packet payload size		Storage temperature	-40...+80 °C (-40...+176 °F)	
Audio	BNC female		EMC compatibility	EN61000-6-3, EN50130-4, CE, FCC	
	Number of channels	4 bi-directional	Environmental	IEC60068-2-1:1990 + A1:1993 + A2:1994, IEC60068-2-2:1974 + A1:1993 + A2:1995, NEMA TS 2-2003	
	Nominal level (RMS)	0.775 V	unbalanced	0 dBm	
Impedance	> 10k ohm	input	Accessories ***		
	< 50 ohm	output	Management cable	CIC504	D9, 2.0 m
Coding	ITU G.711	u-law	Audio cable	CIC401	4 x RCA male, 3.0 m
Sampling rate	8 **** / 32 kHz		Data cable	CIC603	RJ45 - open wires, 2.5 m
Data rate	64 **** / 256 kbps	per channel	Power Supply	CPS241/242/243	12 VDC 3.3 A
Transport	RTP/UDP/IP multicast and unicast				
Connector	RJ-45 female				
Data					
Number of channels	2	full duplex			
Standard	EIA RS232/422/485	selectable			
Bit rate	1.2...115.2 kbps	standard speeds			
Format	asynchronous	standard framings			
Transport	TCP/IP unicast or UDP/IP multicast	selectable			
Connectors	RJ-45 female				
Ethernet Interface					
Number of ports	1				
Port standard *	10/100Base-Tx / 100Base-Fx	SFP optics support			
Connector	RJ-45 female	10/100Base-Tx			