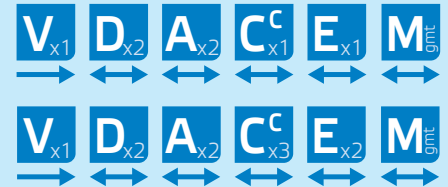


One channel video processor

MPC-E1 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-E1 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-E1 is a versatile, temperature hardened video processing product that can be harnessed with one video input, 2-port terminal server, two bi-directional audio, three bi-directional contact closure and two 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-E1 suitable for deployment in a wide range of optical networks.

The video streams from MPC-E1 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-E1 is a cool

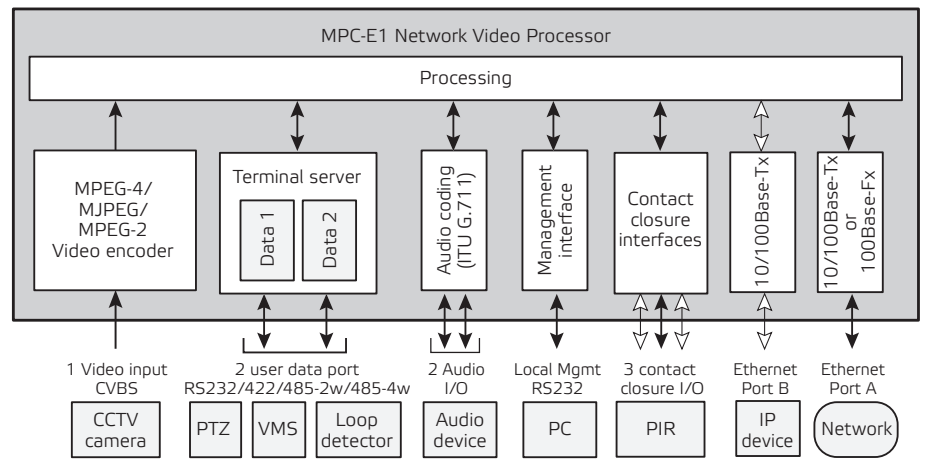
runner having industry leading figures in terms of power consumption per video channel. Low cost of ownership is further emphasized by upgradeable firmware enabling easy introduction of new features on existing hardware.

With unparalleled analog video performance and mission-critical application optimized encoding algorithm, MPC-E1 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, audio and contact closure
- 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, *** = from v.4.2.x onwards)

Video			Ethernet Interface		
Number of inputs	1 CVBS	PAL/NTSC	Number of ports	1 / 2 **	port A & B
Nominal level	1.0 Vpp		Port A standard *	10/100Base-Tx / 100Base-Fx	SFP optics support
Input impedance	75 ohms		Port B standard **	10/100Base-Tx	fixed
Number of encoding profiles	4		Connector	RJ-45 female	10/100Base-Tx
Number of output streams	5 per profile	multicast and/or unicast	Ethernet Protocols		
Encoding	ISO/IEC 14496-2 ISO/IEC 13818-2 ISO/IEC 13818	MPEG-4 SP L5 MJPEG *** MPEG-2 MP@ML **	Video/Audio/Data	RTP, UDP, TCP, IP, SAP	
Resolution	QCIF, CIF, 2CIF, 4CIF, ½D1, D1 QCIF, CIF, 2CIF, 4CIF	MPEG-4, MPEG-2 ** MJPEG ***	Management	SNMPv2, HTTP, DHCP, SSH, SSL, Telnet	
Frame rate	1...25 fps PAL, 1...30 fps NTSC 25 fps PAL, 30 fps NTSC	MPEG-4, MJPEG *** MPEG-2 **	Generic	ICMP, IGMPv3, ARP, NTP, FTP	
Output bit rate (adjustable)	9.6 kbps...8 Mbps 9.6 kbps...12 Mbps 128 kbps...8 Mbps	MPEG-4 MJPEG *** MPEG-2 **	SFP Optics **		
Latency	< 150 ms	encoding - decoding	MMF 1310 nm	2 km	2 fibres
JPEG capture	yes	adjustable capture rate	SMF 1310 nm	30 / 60 km	2 fibres
Motion detection	yes		SMF 1550 nm	20 / 100 / 120 km	2 fibres
Text overlay	yes		CWDM (ITU G.694.2)	100 km	2 fibres
Transport	RTP/UDP/IP multicast and unicast RTP/UDP TS/UDP/IP, ES/UDP/IP, ES/RTP/UDP/IP	MPEG-4 MJPEG *** MPEG-2 **	BIDI SMF 1310/1550 nm	25 / 60 km	1 fibre
Connector	BNC female		Connector	LC	100Base-Fx
Audio			Management		
Number of channels	2 bi-directional	unbalanced	WebUI	local via Ethernet port, remote via network	
Nominal level (RMS)	0.775 V	0 dBm	SNMP	remote via network	
Impedance	> 10k ohm < 50 ohm	input output	CLI	local via management port, remote via telnet	
Coding	ITU G.711	u-law	Software update	local or remote via telnet	
Sampling rate	32 kHz		Status indicators	front panel leds	
Data rate	256 kbps	per channel	General		
Transport	RTP/UDP/IP multicast and unicast		Supply voltage	10.5...25 V DC	
Connector	RJ-45 female		Power consumption	4.6 W, 6.6 W **	
Data			PSU connector	2-pin removable screw terminal	
Number of channels	2	full duplex	Dimensions (H x W x D)	60 x 130 x 130 mm (2.4 x 5.1 x 5.1") 80 x 130 x 130 mm (3.1 x 5.1 x 5.1") **	
Standard	EIA RS232/422/485	selectable	Weight	1.0 kg (2.2 lb), 1.3 kg (2.9 lb) **	
Bit rate	1.2...115.2 kbps	standard speeds	Housing	Stand-alone, DIN rail mount **	
Format	asynchronous	standard framings	MTBF	> 210.000 h	HRD5
Transport	TCP/IP unicast or UDP/IP multicast	selectable	Operating temperature	-34...+74 °C (-29...+165 °F)	temperature hardened
Connectors	RJ-45 female		Storage temperature	-40...+80 °C (-40...+176 °F)	
Contact Closure			EMC compatibility	EN61000-6-3, EN50130-4, CE, FCC	
Number of channels	1 / 3 **	bi-directional	Environmental	IEC60068-2-1:1990 + A1:1993 + A2:1994 IEC60068-2-2:1974 + A1:1993 + A2:1995	
Input *	dry contact opto-isolated	short circuit 5V DC / 20mA (max.)	Accessories **		
Output	24V / 1A (relay)	max.	Management cable	CIC504	D9, 2.0 m
Control delay	< 20 ms		Audio cable	CIC401	4 x RCA male, 3.0 m
Connectors	4-pin removable screw terminal		Data cable	CIC603	open wires, 2.5 m
			Power Supply	CPS241/242/243	12 VDC 3.3 A