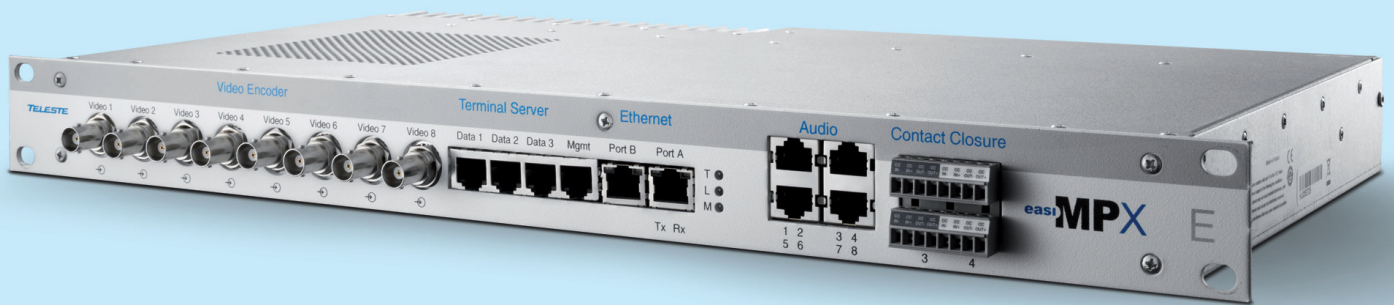
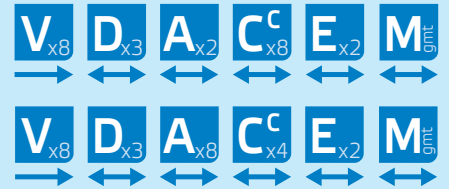


# Eight channel video processor

MPX-E8 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 MPX-E8 is a versatile, temperature hardened video processing product that can be harnessed with eight video inputs, 3-port terminal server, two bi-directional audio, 8 bi-directional contact closure channel and 2 Fast Ethernet interfaces. The video processing is performed on software and can perform flexibly video encoding and analysis.

The three 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 MPX-E8 suitable for deployment in a wide range of optical networks.

The video streams from MPX-E8 can be viewed from analog CRT or LCD monitors using MPX-D8 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 MPX-E8 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.

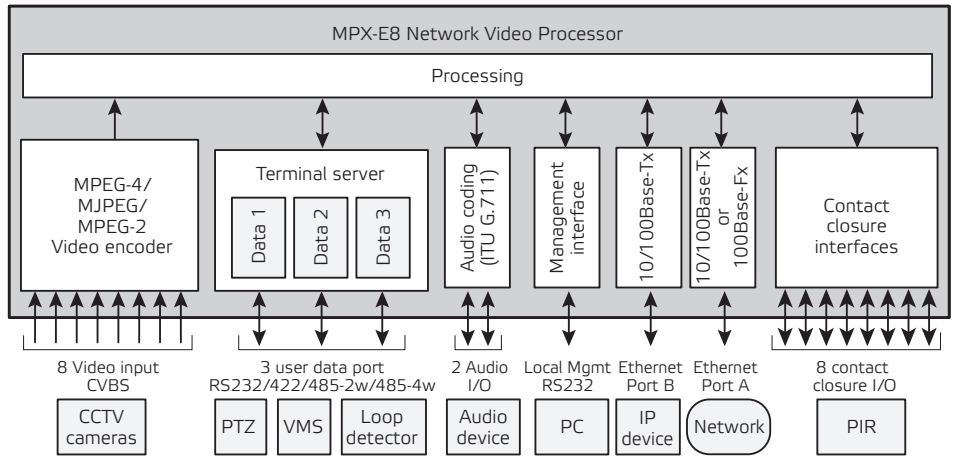
With unparalleled analog video performance and mission-critical application optimized encoding algorithm, MPX-E8 is the industry leader in video encoding for surveillance applications. It gives you the touch and feel of traditional analogue systems while providing the flexibility and manageability provided by today's Ethernet networks.

The MP-X platform offers all the components needed in networked digital video systems for high performance video security system.

# 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, \*\*\* = ordered separately, \*\*\*\* = from SW 4.3.x onwards)

<b>Video</b>		Control delay	< 20 ms
Number of inputs	8 CVBS PAL/NTSC	Connectors	8-pin removable screw terminal
Nominal level	1.0 Vpp	<b>Ethernet Interface</b>	
Input impedance *	75 ohms / high impedance	Number of ports	2 port A & B
Number of encoding profiles	16	Port A standard *	10/100Base-Tx / 100Base-Fx SFP optics support
Number of output streams	5 per profile multicast and/or unicast	Port B standard	10/100Base-Tx fixed
Encoding	ISO/IEC 14496-2 MPEG-4 SP L5 ISO/IEC 13818-2 MJPEG ISO/IEC 13818 MJPEG-2 MP@ML **	Connector	RJ-45 female 10/100Base-Tx
Resolution	QCIF, CIF, 2CIF, 4CIF, D1 QCIF, CIF, 2CIF, 4CIF	<b>Ethernet Protocols</b>	
Frame rate (fps)	1...25 PAL, 1...30 NTSC 25 PAL, 30 NTSC	Video/Audio/Data	RTP, UDP, TCP, IP, SAP
Output bit rate (adjustable)	9.6 kbps...8 Mbps 9.6 kbps...8 Mbps 128 kbps...8 Mbps	Management	SNMPv2, HTTP, DHCP, SSH, SSL, Telnet
Performance (max) 25/30fps	MPEG-4 8 x 2CIF / 4 x 4CIF/D1 MPEG-2 4 x D1 MJPEG 8 x 4CIF/D1	Generic	ICMP, IGMPv3, ARP, NTP, FTP
Latency	< 150 ms encoding - decoding	<b>SFP Optics **</b>	
JPEG capture	16 (one per profile) adjustable capture rate	MMF 1310 nm	2 km 2 fibres
Motion detection	yes	SMF 1310 nm	30 / 60 km 2 fibres
Text overlay	yes	SMF 1550 nm	20 / 100 / 120 km 2 fibres
Transport	RTSP ****/RTP/UDP/IP multi/unicast MJPEG-4 RTP/UDP MJPEG TS/UDP/IP, ES/UDP/IP, ES/RTP/UDP/IP MPEG-2 ** adjustable packet payload size	CWDM (ITU G.694.2)	100 km 2 fibres
Connector	BNC female	BIDI SMF 1310/1550 nm	25 / 60 km 1 fibre
<b>Audio</b>		Connector	LC 100Base-Fx
Number of channels	2 bi-directional unbalanced 8 bi-directional ** unbalanced/balanced	<b>Management</b>	
Nominal level (RMS)	0.775 V 0 dBm	WebUI	local via Ethernet port, remote via network
Impedance	> 10k ohm input < 50 ohm output	SNMP	remote via network
Coding	ITU G.711 u-law	CLI	local via management port, remote via telnet
Sampling rate	8 **** / 32 kHz	Software update	local or remote
Data rate	64 **** / 256 kbps per channel	Status indicators	front panel leds
Transport	RTP/UDP/IP multicast and unicast	<b>General</b>	
Connector	RJ-45 female	Supply voltage	10.5...25 V DC
<b>Data</b>		Power consumption	16 W
Number of channels	3 full duplex	PSU connector	4-pin removable screw terminal
Standard	EIA RS232/422/485 selectable	Dimensions (H x W x D)	1U x 19" x 236 mm (1U x 19" x 9.3")
Bit rate	1.2...115.2 kbps standard speeds	Weight	3.5 kg (7.7 lb)
Format	asynchronous standard framings	Housing	Stand-alone, rack-mount
Transport	TCP/IP unicast or UDP/IP multicast selectable	MTBF	> 160.000 h HRD5
Connectors	RJ-45 female	Operating temperature	-34...+74 °C (-29...+165 °F) temperature hardened
<b>Contact Closure</b>		Storage temperature	-40...+80 °C (-40...+176 °F)
Number of channels	4 ** / 8 bi-directional	EMC compatibility	EN61000-6-3, EN50130-4, CE, FCC, EN50121-4: 2006
Input *	dry contact short circuit opto-isolated 5V DC / 20mA (max.)	Environmental	IEC60068-2-1:1990 + A1:1993 + A2:1994, IEC60068-2-2:1974 + A1:1993 + A2:1995
Output	24V / 1A (relay) max.	<b>Accessories ***</b>	
		Management cable	CIC504 D9, 2.0 m
		Audio cable	CIC401 4 x RCA male, 3.0 m
		Data cable	CIC603 RJ-45 - open wires, 2.5 m
		Power Supply	CPS241/242/243 12 VDC 3.3 A