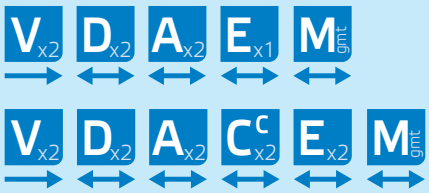
Two channel video decoder

MPC-D2 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-D2 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.

The MPC-D2 is a versatile, temperature hardened video decoding product that has two video outputs, 2-port terminal server, two bi-directional audio, two bi-directional contact closure and two Fast Ethernet interfaces. Beside the standard Ethernet copper interface the unit is also available with SFP plug-in optics.

The MPC-D2 supports decoding of industry standard MPEG-4, MJPEG and MPEG-2 video streams. This unique feature makes it an optimum choice for CCTV service providers migrating from MPEG-2 to more flexible MPEG-4 streaming. Regardless of the used video compression, the decoder unit can output up to two, either MPEG-4, MJPEG or MPEG-2, video signals to analog CRT or LCD monitors. This provides for the best in breed video decoding in both performance and form factor.

The two built-in EIA RS data channels provide multi-vendor PTZ camera control through Ethernet network.

The unit can be managed through a user friendly WebUI. The virtual matrix functionality can be achieved with VMX Video Management System.

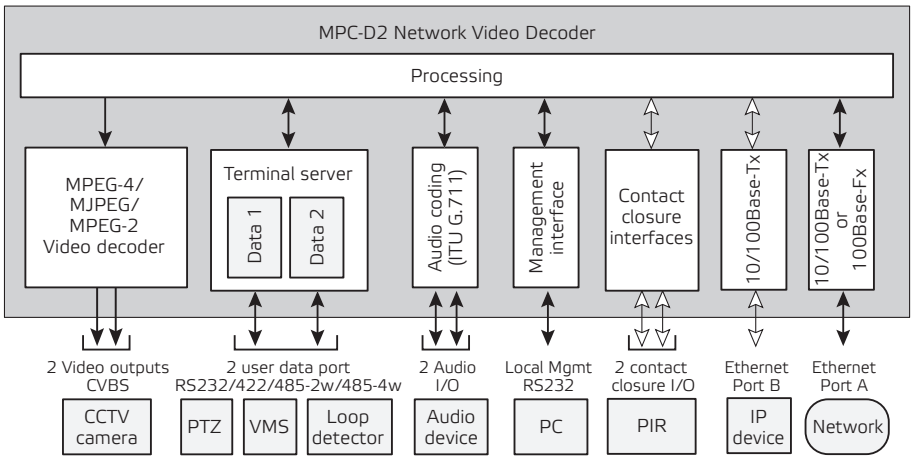
The solid state MPC-D2 is a cool runner having industry leading figures in terms of power consumption per video channel. Long-term investment protection is further emphasized by upgradeable firmware enabling easy introduction of new features on existing hardware.

With unparalleled analog video performance and delay optimized buffering, EASI MPC-D2 is the industry leader in video decoding for surveillance applications. It gives you the touch and feel of traditional analogue systems while providing the flexibility of today's Ethernet networks.

Features

- DVD quality video
- ISO/IEC compliant MPEG-4, MJPEG and MPEG-2 video support
- Auto-detection of incoming video stream
- Low latency
- Bi-directional serial data, audio and contact closure
- SFP optics support
- Unicast and multicast support
- SAP support
- Feasible for temperature hardened operation
- Low power consumption
- Password protected user access
- User friendly WebUI

Block diagram



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

Video		
Number of outputs	2 CVBS	PAL/NTSC
Nominal level	1.0 Vpp	75 ohms
Decoding	ISO/IEC14496-2	MPEG-4@SP L5
	ISO/IEC13818-2	MJPEG ***
	ISO/IEC 13818	MPEG-2 MP@ML
Resolution	QCIF, CIF, 2CIF, 4CIF, ½D1, D1	MPEG-4, MPEG-2
	QCIF, CIF, 2CIF, 4CIF	MJPEG ***
Frame rate	1...25 fps PAL,	
	1...30 fps NTSC	MPEG-4, MJPEG
	25 fps PAL, 30 fps NTSC	MPEG-2
Input bit rate	up to 8 Mbps	MPEG-4
	up to 8 Mbps	MJPEG ***
	up to 10 Mbps	MPEG-2
Transport	RTP/UDP/IP	
	multicast and unicast	MPEG-4
	RTP/UDP	MJPEG ***
	TS/UDP/IP, ES/UDP/IP,	
	ES/RTP/UDP/IP	MPEG-2
Latency	< 150 ms	encoding - decoding
Connectors	BNC female	

Audio		
Number of channels	2 bi-directional	unbalanced
Nominal level (RMS)	0.775 V	0 dBm
Impedance	> 10k ohm	input
	< 50 ohm	output
Coding	ITU G.711	u-law
Sampling rate	8 ***/32 kHz	
Data rate	64 ***/256 kbps	per channel
Transport	RTP/UDP/IP multicast and unicast	
Connectors	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	

Contact Closure **		
Number of channels	2	bi-directional
Input *	dry contact	short circuit
	opto-isolated	5V DC / 20mA (max.)
Output	24V / 1A (relay)	max.
Control delay	< 20 ms	
Connectors	4-pin removable screw terminal	

Ethernet Interface		
Number of ports	1 / 2 **	port A & B
Port A standard *	10/100Base-Tx/100Base-Fx	SFP optics support
Port B standard **	10/100Base-Tx	fixed
Connector	RJ-45 female	10/100Base-Tx

Ethernet Protocols	
Video/Audio/Data	RTP, UDP, TCP, IP, SAP
Management	SNMPv2, HTTP, DHCP, SSH, SSL, Telnet
Generic	ICMP, IGMPv3, ARP, NTP, FTP

SFP Optics *		
MMF 1310 nm	2 km	2 fibres
SMF 1310 nm	30 / 60 km	2 fibres
SMF 1550 nm	20 / 100 / 120 km	2 fibres
CWDM (ITU G.694.2)	100 km	2 fibres
BIDI SMF 1310/1550 nm	25 / 60 km	1 fibre
Connector	LC	100Base-Fx

Management	
WebUI	local via Ethernet port, remote via network
SNMP	remote via network
CLI	local via management port, remote via telnet
Software update	local or remote
Status indicators	front panel leds

General		
Supply voltage	10.5...25 V DC	
Power consumption	4.6 W, 6.6 W **	
PSU connector	2-pin removable screw terminal	
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") **	
Weight	1.0 kg (2.2 lb), 1.3 kg (2.9 lb) **	
Housing	Stand-alone, DIN-rail mount **	
MTBF	> 190.000 h	HRD5
Operating temperature	-34...+74 ºC (-29...+165 ºF)	temperature hardened
Storage temperature	-40...+80 ºC (-40...+176 ºF)	
EMC compatibility	EN61000-6-3, EN50130-4, CE, FCC	
Environmental	IEC60068-2-1:1990 + A1:1993 + A2:1994	
	IEC60068-2-2:1974 + A1:1993 + A2:1995	

Accessories ****		
Management cable	CIC504	D9, 2.0 m
Audio cable	CIC401	4 x RCA male, 3.0 m
Data cable	CIC603	open wires, 2.5 m
Power Supply	CPS241/242/243	12 VDC 3.3 A

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