

Product Information – MPH242

Two Channel Video Processor

MPH is the next generation high performance H.264 network video product encoding video in unmatched quality in mission critical applications for customers in rail, road, airport, city center monitoring and corporate security.





-34...+74 °C

H.264 MPEG-4 MJPEG MPEG-2

MPH242 can deliver up to two independent video streams per video input at full frame rate and full SD resolution using H.264, MPEG-2, MPEG-4 or MJPEG, or a higher number of lower resolution streams. This allows security professionals to optimise each of the individual streams for its purpose, e.g. live viewing, recording, web applications, PDA etc. It also ensures safe and seamless migration path from any legacy hybrid video network towards fully H.264 based network.

The video stream can be accompanied with synchronised audio stream. The video streams can be decoded by standards compliant media players and video decoder devices. The stream authenticity is an integral part of the solution fulfilling the most stringent requirements for evidential material set by authorities. The built-in EIA RS data channels provide multi-vendor PTZ camera control through Ethernet network. The alarm inputs and output can be used to trigger events and control external devices.

MPH provides direct copper and fibre connectivity to Fast/Gigabit Ethernet networks through a built-in Ethernet switch. The use of SFP plug-in optics makes it suitable for deployment in a wide range of optical networks.

In addition to Command Line Interface (CLI) and comprehensive Web user interface, MPH speaks ONVIF fluently. This provides straight forward interoperability with any ONVIF compliant management system. Integration to third party systems can also be achieved using RTSP, SAP or SNMP.

Reliability is the second name of the platform. Low cost of ownership is guaranteed by the industry leading figures in terms of power consumption per functionality as well as the mechanical design which is custom made to fit the high performance criteria in harsh environment. MPH meets the compliance requirements of EN50121 Railway standard as well as NEMA TS2 standard widely used for ITS applications.

MPH 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

- QCIF to D1 resolution at 25/30 fps
- Simultaneous H.264, MPEG-4, MPEG-2 and MJPEG encoding
- Quad streaming to full D1
- Low video latency
- Support for transparent data tunnelling and ONVIF PTZ service
- Alarm inputs and relay output
- Built-in video analytics
- Built-in Gigabit Ethernet switch
- Video signature for content authentication
- Text overlay
- Privacy masking
- Industrial design for -34 ...+74°C operating temperature
- Support for ONVIF and SNMP management interface
- Support for WebUI and CLI user interface
- Support for SFP
- Optional support for PoE

	MPH242 Network Video Processor												
	Processing												
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			¥			**	•	** **					
	Video input CVBS		85422/ 5-2w/4w	RS23 / CL		Audio I/O x 2	CCs 2 in, 1 out	Ethernet ports x 4					
	CCTV camera	PT	z vms	Loop detecto	r PC	Audio device	PIR	Network					

Block diagram

Technical specifications (Typical values unless otherwise stated, * = define when ordering, ** = optional, *** = ordered separately)

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number of runges number of explosition2 PPL/NTS-Gigabit Ethernet11/10/0004ASE.XSEP ***Input impedance Number of explosition75 ohmsEthernet connectorR.145 Femaleelectrical epitialNumber of explosition Scotter ScotterApprox16H.156 M.REthernet connectorR.145 Femaleelectrical epitialNumber of explosition ScotterScotter ScotterH.156 M.REthernet ProtocolsEthernet ProtocolsExplosition ScotterBC/RE 13496 MPEG2 APARS** MPEG2 APARS*** MPEG2 APARS*** MPEG2 APARS***********************************	Video					2 electrical & 2 SFP slot *		
Name 1.0 Vpp 1.0 Vpp 100045L:X 5FP *** Number of encoding profiles 6 Impact indexidon (Construction (Constr	Number of inputs	2 PAL/NTSC						
Input impedance 75 ohms 75 oh	Nominal level	1.0 Vpp		Gigabit Ethernet		electrical SFP ***		
Number of output stream 4 per profile multicast /unicast Encoding * 150/EC 14496-0 RFC 2435 H264 MP BP MPEG 3 MPBAL ** View /Votast MPEG 3 MPBAL ** SMPE ** /NTP LPG PS AP RTSP MPEG 3 MPBAL ** Resolution 2015 CF, 2015 4/CF H264 MP MPEG 3 MPEG 3 MPBAL ** SMPE ** /NTP LPG PS AP RTSP MPEG 3 MPBAL ** Resolution 2015 CF, 2015 4/CF H264 MP MPEG 3 MPEG 3 MPEG 3 MPEG 3 MPEG 3 MPEG 3 MPEG 3 MPEG 3	Input impedance	75 ohms		Ethernet connector				
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ISO/ICE 1496-2 WEPEG 4 P/ASP ** Member 4 P/APSA ** MEPEG 4 P/ASP ** Management Mereg 4 P/ASP ** Management Mereg 4 P/ASP ** Management Mereg 4 P/ASP ** Management Mereg 4 P/ASP ** Resolution %D1, D1 H264 MP, MPEG 4 SAP MERG 4 P/ASP ** See separate document *Product Specification / SFP Transceivers** Frame rate (fps) 125 PAL, 130 NTSC H264 MPEG, MPEG 4 MEEG 4 P/ASP ** See separate document *Product Specification / SFP Transceivers* Output thir rate (adjustable) 64 kbps8 Mbps H264, MPEG 4 MEEG 4 P/ASP ** See separate document *Product Specification / SFP Transceivers* Video processing video context analytics (VC) tameing detection, motion detection truetype text overlay, privocy zone masking video context overlay, privocy zone masking video context analytics (VC) tameing detection, motion detection cryptographic signature (RS-) Management MEEG 4 P/ASP ** Management MAPEG 4 P/ASP ** Number of channels Data 1 standard Format 2 S412 V/ASP ** Management Mereg 4 P/ASP ** Management MAPEG 4 P/ASP ** Management MAPEG 4 P/ASP ** Number of channels Data 1 standard Format 2 S412 V/ASP ** Maref 4 P/ASP ** Maref 4 P/ASP ** Maref 4 P/ASP ** Number of channels Data 1 standard Format 2 S412 V/ASP ** S412 V/ASP ** S412 V/ASP ** S412 V/ASP ** S412 V/ASP ** </td <td></td> <td></td> <td rowspan="2">H.264 MP, BP MJPEG MPEG-4 SP/ASP **</td> <td colspan="4">Ethernet Protocols</td>			H.264 MP, BP MJPEG MPEG-4 SP/ASP **	Ethernet Protocols				
MPEG-2 SFP Transceivers "* QCF, Cip ZuF, ZuF, ZuF, ZuF, ZuF, ZuF, ZuF, ZuF,		ISO/IEC 14496-2		Management	SNMP **, HTTP, DHCP, SSH, Telnet			
Prime rate (fps) 1_25 PAL, 1:3 O NTSC H2EG-4 SP, MPEG-2 Manual Control of the cont	Resolution	½D1, D1		SFP Transceivers ***	ivers ***			
Frame rate (rips) 1.25 PAL, 1.0 NDTS R25 AU (PUPC) Management Output bit rate (adjustel) 64 kbp.s. 0.Mbps H264, MJPEG, MPEG,		QCIF, CIF, 2CIF, 4CIF		See separate document "Product Specification / SFP Transceivers"				
Output bit rate (adjustable) 64 kbps8 Mbps H.264, MJPEG, MPEG-4 MPEG-2 WebUI Local via Ethernet port, remode via network * MPEG-2 Latency < 150 ms	Frame rate (fps)		H.264, MJPEG, MPEG-4	Management				
Latency < 150 ms	Output bit rate (adjustable)		H.264, MJPEG, MPEG-4,		Via telnet, SSH or local RS232 Remote via network ²⁾			
Video pre processing Video content analytics (VCA) video authentication cryptographic signatures (RSA) Diagnostics Software update SNMP * or ONVIF Local or remote via CLI, WebUI or ONVIF Video content analytics (VCA) video authentication cryptographic signatures (RSA) Emeral Software update Software upd	Latency	< 150 ms	MPEG-2					
Video connector BNC female CVBS & HD video Supply voltage Power over Ethernet Plus support (PoE+, 802.3at) ** Data		truetype text overlay, privad	y zone masking	Diagnostics	SNMP ** or ONVIF			
Data Supply voltage 10.528 V D. Power Over Ethernet Plus support (PoE+, 802.3at) ** Number of channels 2 b-directional PSU connector 2-pin removable screw terminal Data 1 standard R5422/485 selectable, with term/bias Dimensions (H x W x D) 2-pin removable screw terminal Data 2 standard R5322 fixed Dimensions (H x W x D) 2-pin removable screw terminal Data 2 standard R5322 standard speeds Dimensions (H x W x D) Verify (4.19 lbs) Impensions (H x W x D) Director 0.6230.4 kbps standard speeds Mounting options Wall mounting, DIN rail *** ONVIF PTZ service Pelco D, Pelco D Extended PTZ protocols Mounting options Wall mounting, DIN rail *** Data connector removable screw terminal Doperating temperature -34+74 % (2.9+165 %) temperature hardened Audio transport TCP/IP unicast or UDP/IP multicast selectable MTBF > 100.000 hours HRD5 Audio unbalanced Jagor V unbalanced Approvals Er, FCC Impedance Di kohm / 600 ohm input MLH251 Support for POE Channel MPH MLH321 MPEG-2 encoding licence for 2 channel MPH MLH322 MPEG-2 encoding licence for 2 channel MPH <td>Video authentication</td> <td>cryptographic signatures (R</td> <td>SA)</td> <td colspan="4">General</td>	Video authentication	cryptographic signatures (R	SA)	General				
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Data 1 standard Data 2 standard Pata 2 standard Pata Pata 2 standard Pata		2	bi-directional		13 W			
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Number of channels2 bi-directionalunbalanced/balancedNominal level0.707 V 1.414 VmsunbalancedAdditional Features and Services ***Random vibration, NEMA TS 2-2003Impedance10 kohm / 600 ohm 50 ohm / 10 ohminput outputMLH251Support for PoE MLH322MPEG-2 encoding licence for 2 channel MPHCodingITU G.711 1.6, 726 AC-LCu-law encoding mono, stereoMLH351 MLH351Support for PoE Encryption licence for 2 channel MPHSampling rate8, 16, 32, 44.1, 48 kHz Transport8, 16, 32, 44.1, 48 kHzMLH351 MLH371Support for local storage (future option) MLH251 MLH371Connectorremovable screw terminalMCConfiguration Service MSH271MLH261 Extended WarrantyConnectorremovable screw terminalConsector service MSH271Power supply Management cable12 VDC 3.3 A D9F/8-pin screw terminalInput torm wereter2 inputs / 1 outputNotesPower supply Management cable12 VDC 3.3 A D9F/8-pin screw terminal				EMC	EN 50130-4, EN 50121-4, E			
Nominal level 0.707 V 1.414 V/ms unbalanced balanced Additional Features and Services *** Impedance 10 kohm / 600 ohm 50 ohm / 10 ohm input output MLH 251 Support for PoE MLH 322 MPEG-2 encoding licence for 2 channel MPH MLH 322 Coding ITU G.711 u-law encoding ITU G.726 MLH 32 MPEG-4 encoding licence for 2 channel MPH MLH 324 Sampling rate 8, 16, 32, 44.1, 48 kHz mono, stereo MLH 351 Encryption licence (future option) MLH 371 Sampling rate 8, 16, 32, 44.1, 48 kHz MLH 261 Support for local storage (future option) MLH 371 Support for local storage (future option) MLH 371 Song rate 8, 16, 32, 44.1, 48 kHz ME 32 MPEG-4 encoding licence for 2 channel MPH Transport RTP/UDP/IP TS/UDP/IP MLH 321 Support for local storage (future option) MLH 371 Connector removable screw terminal Accessories *** Stereo With 371 Number of channels 2 inputs / 1 output CSO 50251/252/253 Power supply Management cable 12 VDC 3.3 A D9F/8-pin screw terminal Input duranet at the start of the start is inferior Abote insuit Notes		2 bi-directional	unbalanced	Environmental	Transport bump, Damp heat and Random vibration,			
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Number of channels 2 inputs / 1 output CPS250/251/252/253 Power supply CIC506 12 VDC 3.3 A Input CIC506 Management cable D9F/8-pin screw terminal	Connector							
Number of channels 2 inputs / 1 output CIC506 Management cable D9F/8-pin screw terminal Input Notes	Contact Closure			CPS250/251/252/253	Power supply	12 VDC 3.3 A		
		2 inputs / 1 output		CIC506				
current loop (opto isolated) logical 0 (0+1.4 VDC), logical 1 (+2.2+30 VDC) ¹ H.264 and MJPEG are default encoding engines. MPEG-2 and MPEG-4 are add-on options Output relay max. 30 VDC / 0.6 A ² The unit can support only one of the ONVIF or SNMP at a time Control delay < 20 ms		on/off short circuit						
max. 30 VDC / 0.6 A Control delay < 20 ms		logical 0 (0+1.4 VDC), logi	cal 1 (+2.2+30 VDC)	¹⁾ H.264 and MJPEG are default encoding engines. MPEG-2 and MPEG-4 are add-on options ²⁾ The unit can support only one of the ONVIF or SNMP at a time				
CC connector removable screw terminal Ethernet Interfaces Convert © 2013 Taterto Comparison All debra previous de la CELESTE la previous de la convertione d	relay							
Ethernet Interfaces	CC connector	removable screw terminal						
	Ethernet Interfaces			Convright © 2012 Teleste Corpor	ation. All rights reserved. TELESTE is a re-	nistered trademark of Teleste Corporation		