MX SERIES

DATALOGIC

VISION

MX-Series Vision Processors provide the highest performance in image processing with even more flexibility through multi-camera support. Three models allow you to choose the correct level of performance based on your application needs.

The MX20 Series is an entry-level, affordable processor featuring an Intel® T3100 dual core 1.90 GHz processor and two independent PoE (Power over Ethernet) camera ports. The MX20 offers a cost-effective means to migrate from smart-camera applications to an embedded vision system.

The MX40 Series is a rugged and compact embedded vision processor that features Intel® multi-core processors and four independent PoE (Power over Ethernet) camera ports. The MX40's long-life embedded components provide a very robust and reliable vision system for critical inspection applications.

The next-generation MX80 Vision Processor extends the power and performance of MX-Series to faster applications, advanced algorithms and higher-resolutions with its Intel® Core™ i7 quad-core processor, 8GB memory and four independent Gigabit PoE (Power over Ethernet) ports.

BENEFITS

- Easily integrates with Datalogic P, A and T-Series smart cameras for data sharing and intercamera communication without a PC
- Lower installation cost
- Combines up to four unique camera capabilities for application-specific requirements
- Simplifies cabling by eliminating the need for camera power cables
- Shared processing reduces cost per inspection point
- Increased inspection power delivers higher inspection rates

HIGHLIGHTS

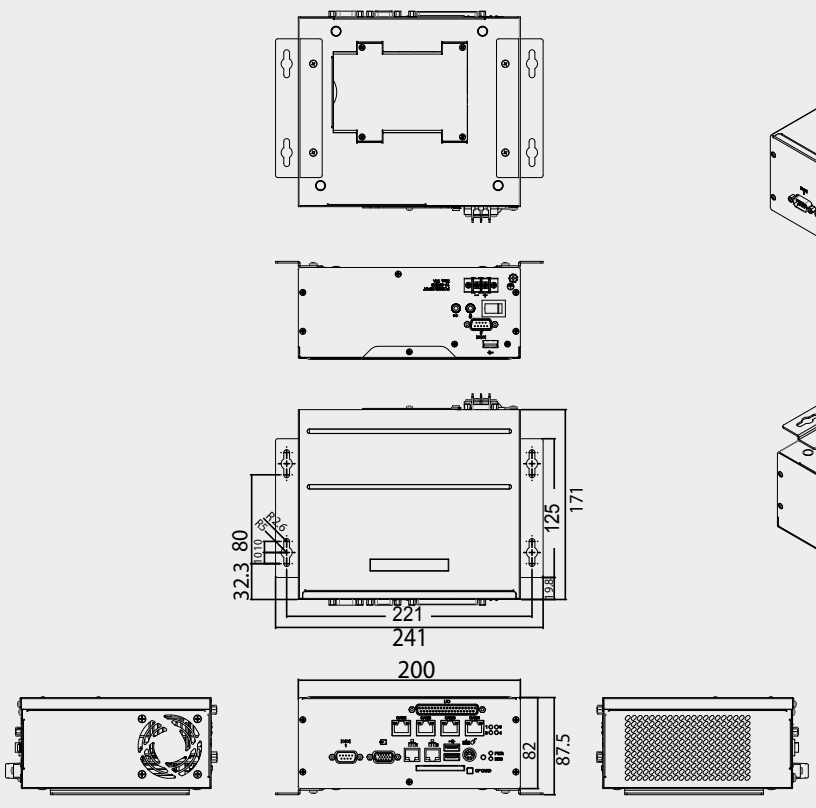
- Multi-camera capability – Reduces integration costs on a per camera basis and allows data collection and analysis from multiple inspection points
- Supports over 100 different GigE Vision cameras including line scan, high resolution and IP rated cameras for access to the largest selection of cameras
- Allows for the use of different camera formats and resolutions on one processor – offers easy setup resulting in reduced integration costs
- Complete IMPACT software suite included for ultimate programming flexibility – addresses any inspection and user interface needs
- 2 or 4 Channel Power over Ethernet (PoE) camera ports – integrates easily. PoE compliant cameras need no power cables and support up to 100 meter cable lengths

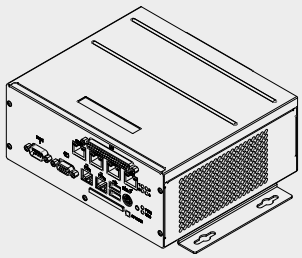
TECHNICAL SPECIFICATIONS

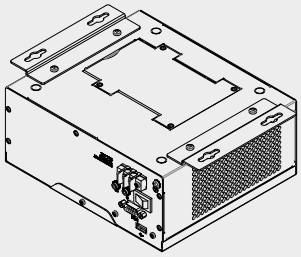
	MX20	MX40	MX80
CPU	Intel® T3100 dual-core 1.90 GHz	Intel® P8400 dual-core 2.26 GHz	Intel® Core i7-2710QE 4-core 2.10 GHz
System Memory	4 GB DDR3 RAM		4 GB DDR3 RAM 8 GB DDR3 RAM (Win 7)
Storage	40 GB (Win XP) 80 GB (Win 7)		
Graphics	Intel® GM45/ICH9 video chipset (1600 x 1200 resolution), VGA		Intel® QM67 Express chipset (2048 x 1536 resolution), DVI
Camera Interface	2x 1000 Mbps Base-T, PoE camera ports (up to 7 W per channel)	4x 1000 Mbps Base-T, PoE camera ports (up to 7 W per channel)	
Camera Imager Limit	2Mpixel or lower No LineScan support	None	
Network Interface	2x 10/100/1000 Mbps Base-T LAN ports		
Serial Communications	2x RS-232 serial ports		5x RS-232 serial ports
USB	3x USB 2.0 ports		4x USB 2.0 ports 2x USB 3.0 ports
Keyboard/Mouse	Combined PS/2 type mini-DIN connectors		
Comm Connectivity	Supports Ethernet/IP, Modbus TCP and OPC		
I/O	16x isolated digital inputs 16x isolated digital outputs 2x event inputs (shared with the Polled Inputs)		
Operating System	Windows XP Pro (32-Bit OS, SP3) Windows 7 Pro Embedded		
Power Requirements	24 VDC (+/- 10%, 3.5 amp min)		
Dimensions	200 mm x 85 mm x 165 mm (7.8 in. x 3.3 in. x 6.5 in.)		230 mm x 82 mm x 206 mm (9.06 in. x 3.23 in. x 8.11 in)
Operating Temperature	0 to 55° C (+32 to +131° F)		
Humidity	0 to 90% (non-condensing)		
Certification (Safety Compliance)	CE/FCC, RoHS, UL		

DIMENSIONS

MX20







ACCESSORIES

DESCRIPTION	ORDER N°
I/O Cables, MX Series Processors	
Cable, I/O, MX Series, Processor to Terminal Block, .75 Meter	606-0675-.75
Cable, I/O, MX Series, Processor to Terminal Block, 1.5 Meter	606-0675-1.5
Cable, I/O, MX Series, Processor to Terminal Block, 3 Meter	606-0675-3
Cable, I/O, MX Series, Processor to Terminal Block, 4.5 Meter	606-0675-4.5
Cable, I/O, MX Series, Processor to Terminal Block, 7.5 Meter	606-0675-7.5
Cable, I/O, MX Series, Processor to Terminal Block, 15 Meter	95A906060
I/O Boards, MX Series Processors	
I/O Board, MX-Series Processors, Female DB37, DIN Rail Mountable, no isolation	248-0110
I/O Board, MX-Series External I/O terminal Block, DIN Rail Mountable, with isolation	661-0403
Power and I/O Cables to Terminal Block, M Series Cameras	
Cable, Camera I/O, M1xx, M5xx, 6 pin, 2 Meter, Camera to Terminal Block	606-0674-02
Cable, Camera I/O, M1xx, M5xx, 6 pin, 3 Meter, Camera to Terminal Block	606-0674-03
Cable, Camera I/O, M1xx, M5xx, 6 pin, 5 Meter, Camera to Terminal Block	606-0674-05
Cable, Camera I/O, M1xx, M5xx, 6 pin, 10 Meter, Camera to Terminal Block	606-0674-10
Cable, Camera I/O, M1xx, M5xx, 6 pin, 15 Meter, Camera to Terminal Block	606-0674-15
Cable, Camera I/O, M1xx, M5xx, 6 pin, 20 Meter, Camera to Terminal Block	606-0674-20
Cable, Camera Power and I/O, M2xx, M3xx and M5xx, 12 pin, 2 Meter, Camera to Terminal Block	606-0673-02
Cable, Camera Power and I/O, M2xx, M3xx and M5xx, 12 pin, 3 Meter, Camera to Terminal Block	606-0673-03
Cable, Camera Power and I/O, M2xx, M3xx and M5xx, 12 pin, 5 Meter, Camera to Terminal Block	606-0673-05
Cable, Camera Power and I/O, M2xx, M3xx and M5xx, 12 pin, 10 Meter, Camera to Terminal Block	606-0673-10
Cable, Camera Power and I/O, M2xx, M3xx and M5xx, 12 pin, 15 Meter, Camera to Terminal Block	606-0673-15
Power and I/O Cables Unterminated, M Series Cameras	
M1xx Camera I/O Cable, 6 pin, 2 Meter, pigtail	606-0672-02
M1xx Camera I/O Cable, 6 pin, 3 Meter, pigtail	606-0672-03
M1xx Camera I/O Cable, 6 pin, 5 Meter, pigtail	606-0672-05
M1xx Camera I/O Cable, 6 pin, 10 Meter, pigtail	606-0672-10
M2xx and M3xx Camera Power and I/O Cable, 12 pin, 2 Meter, pigtail	606-0671-02
M2xx and M3xx Camera Power and I/O Cable, 12 pin, 3 Meter, pigtail	606-0671-03
M2xx and M3xx Camera Power and I/O Cable, 12 pin, 5 Meter, pigtail	606-0671-05
M2xx and M3xx Camera Power and I/O Cable, 12 pin, 10 Meter, pigtail	606-0671-10
M2xx and M3xx Camera Power and I/O Cable, 12 pin, 15 Meter, pigtail	606-0671-15
I/O Boards, M Series Cameras	
I/O Board, M1xx Camera, 1 Input / 1 Output, Female DB9, DIN Rail Mountable, no isolation	248-0140
I/O Board, M1xx Camera, w / isolation	661-0399
I/O Board, M2xx and M3xx Cameras, Female HD15, DIN Rail Mountable, no isolation	248-0141
I/O Board, M2xx, M3xx, & Aviator Camera, w / isolation	661-0400
I/O Board, M5xx Camera, w / isolation	661-0401
Brackets, M Series Cameras	
Camera Mount, M1xx Cameras	95A903029
Camera Mount, M2xx and M3xx Cameras	381-1354
Ethernet Cables, M Series Cameras	
Cable, Gig-E, CAT6, 2 Meter	606-0677-02
Cable, Gig-E, CAT6, 3 Meter	606-0677-03
Cable, Gig-E, CAT6, 5 Meter	606-0677-05
Cable, Gig-E, CAT6, 7 Meter	606-0677-07
Cable, Gig-E, CAT6, 10 Meter	606-0677-10
Cable, Gig-E, CAT6, 15 Meter	606-0677-15
Cable, Gig-E, CAT6, 25 Meter	606-0677-25
Cable, Gig-E, CAT6, 50 Meter	606-0677-50
Licenses, MX Series Processors	
License, Pattern Sorting Tool, Processor	95A906545
License, OCR, 1 Camera Processor	95A906541
License, OCR, 2 Camera Processor	95A906542
License, OCR, 3 Camera Processor	95A906543
License, OCR, 4 Camera Processor	95A906544
License, Add 1 Camera, MX-Series	95A906536
License, Add 2 Cameras, MX-Series	95A906537
License, Add 3 Cameras, MX-Series	95A906538
License, 3rd Party Cameras, Processor	95A906539

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