

M180 GigE

Multi-Camera Vision Controllers



FEATURES

- Ready to use
- ▼ Fan-less design
- **▼** PoE
- ▼ FPGA controlled high-speed I/Os
- Windows 7 Embedded Standard 64 bit OS; Windows 10 (Coming soon),
- PCI Express 8x slot
- 2 SATA HD slots

ACCURATE CONTROL AND OPEN ARCHITECTURE

The M180 is a vision controller with highly accurate I/O control and with an open architecture. It allows to connect a wide range of cameras and can operate with most machine vision software tools and libraries available on the market. It offers maximized acquisition performance.

The M180-GigE offers 6 Gigabit Ethernet ports with PoE. Each Gigabit Ethernet port is connected to the CPU through a dedicated PCI-Express interface in order to guarantee the maximum acquisition performance.

Camera sync can be implemented using the 6 high-speed trigger outputs or via the Precision Time Protocol (PTP) IEEE1588. One additional Gigabit Ethernet port is dedicated to the LAN connection.

The isolated high-speed digital I/O (8 in / 14 out) allows the perfect low-latency synchronization between vision system, cameras and machine automation.

Thanks to the FPGA technology, implementing real-time logics is incredibly easy.





M180

APPLICATION EXAMPLES

- **■** AOI
- Web Inspection
- **¬** Print inspection
- ▼ Pharmaceutical
- Sorting Applications
- 3D Measurements

TECHNICAL DATA

M180 GigE		
Processing		
CPU	Intel i7 6820EQ 2.8 GHz Quad Core	
FPGA	Altera Cyclone GX 22K LEs (I/O management)	
RAM	up to 32GB	
Storage	1x SSD up to 256 GB 2x SATA HDD/SSD (optional)	
Camera interface		
Protocols	GigE Vision - USB 3.0	
GigE Vision ports	6	
USB 3.0 ports	4	
Camera supply	PoE - USB	
Machine interface		
LAN	1x Gigabit Ethernet	
Video output	2x Display Port	
Serial interfaces	RS232/RS485	
Expansion bus	1x PCle x8 expansion card (Frame grabber, interface board, etc)	
USB 2.0	2x USB 2.0 External / 1x USB 2.0 Internal	
Digital inputs	8x isolated PNP	
Digital outputs	8x isolated PNP	
Trigger	6x fast isolated PNP	
Encoder inputs	3-channel Line drive RS422	
Electrical		
Power	22 - 27 VDc	
Power Consumption	Max 100 W	
Mechanical		
Dimensions	286 mm x 197 mm x 73 mm	
Weight	3,5 Kg	
Environmental		
Cooling	Fanless	
Operating Temperature	0 °C - 45 °C	
Conformity	2004/108/CE - EN 61326-1:2066 - EN 62311:2008 - RoHS	
Software		
Operating System	Windows Embedded Standard (WES) 7 64 bit, Windows 10 (coming soon)	

M100 Series - Part Number

F01851-10	M180 Multi-Camera Vision Controller GigE i7 6Th Gen. DDR4 16GB SSD M.2 64GB
F01851-20	M180 Multi-Camera Vision Controller GigE i7 6Th Gen. DDR4 32GB SSD M.2 64GB
F01851-30	M180 Multi-Camera Vision Controller GigE i7 6Th Gen. DDR4 16GB SSD 256GB
T18396	PCIe expansion for M100 Series

