

## Features:



- DM&P Vortex86EX2 Processor, Master 533MHz/Slave 400MHz
- EtherCAT Master Core runs on dedicated CPU
- Hardware/Software Real-time
- 86Duino Integrated Development Environment (IDE)
- Up to 128 axes support for motion control
- 15-inch TFT 1024×768 Resolution LCD with Restive touchscreen
- Internal Monitoring Hardware Information
- Operating temperature 0 to +50°C/-20 to +60°C (Option)
- 3LAN/3USB/MicroUSB/VGA/MiniPCle/Arduino Pins

## Specifications

CPU	DM&P Vortex86EX2 Processor, Master 533MHz/Slave 400MHz	
Memory	512MB/1GB DDRIII Onboard	
Storage	32MB SPI Flash/2GB SLC eMMC	
LCD Display	15-inch TFT 1024×768 Resolution LCD with Restive touchscreen	
LAN	1Gbps Ethernet RJ45 x1 & 10/100Mbps Ethernet RJ45 x2 for EtherCAT	
Expansion	MiniPCle x 1 with Micro SIM Card Holder	
I/O Connector	2.54mm 2-pin header for Power Connector	1.25mm 4-pin header for EXT I2C TFT Driver
	1.25mm 4-pin wafer for Line-Out	Micro SIM Card Holder x1
	Power DC Input/Output Connector x1	MiniPCle slot x1
	Micro USB (Type-B) x1 (Upload/Debug only)	USB Host x3
Arduino Compatible Connector	VGA Connector (10-pin) x1	RJ45 x3
	2.54mm 10-pin female header for I2CO, MCM, GPIO	2.54mm 6-pin female header for CAN0 and CAN1 bus
	2.54mm 8-pin female header for MCM, GPIO, COM1(TTL)	2.54mm 6-pin female header for GPIO, VCC and GND
	2.54mm 8-pin female header for Power source	2.54mm 10-pin header for SPI, RESET-
Protocol	2.54mm 6-pin female header for ADC/GPIO	2.54mm 10-pin header for SPI, RESET-, RS485
	EtherCAT (EtherCAT Master Functions: PDO, CoE, DC, Cable-redundancy, etc.)	
Ethernet Standard	IEEE 802.3	
Control Cycle Time	125 µs (min.)	
Power Connector	6-pin Power Input/Output	
Power Requirement	+12 to +50VDC Power Input (Typ. +24VDC)	
LCD Display Power	DCM-12V: Input 15~36Vdc and Output 12V@Max. 2.5A.	
Power Comsumption	10W	
Operating Temperature	0 to +50°C/-20 to +60°C (Option)	
Dimension	246 x 185.33 x 32.83mm	
Weight	2.3 Kg	
Internal Monitoring	Temperature, Voltage, Current	
Software Support	86Duino Coding IDE (The environment is written in Java and based on Arduino IDE, Processing, DJGPP, and other open source software)	

## Ordering Information

QEC-M-150T	Vortex86EX2 Processor 533MHz-based EtherCAT Master System with 15-inch LCD
QEC-M-150TP	Vortex86EX2 Processor 533MHz-based EtherCAT Master System with 15-inch LCD/PoE

\* For detailed ordering information, please contact our sales staff or view the user manual.

## Dimension

