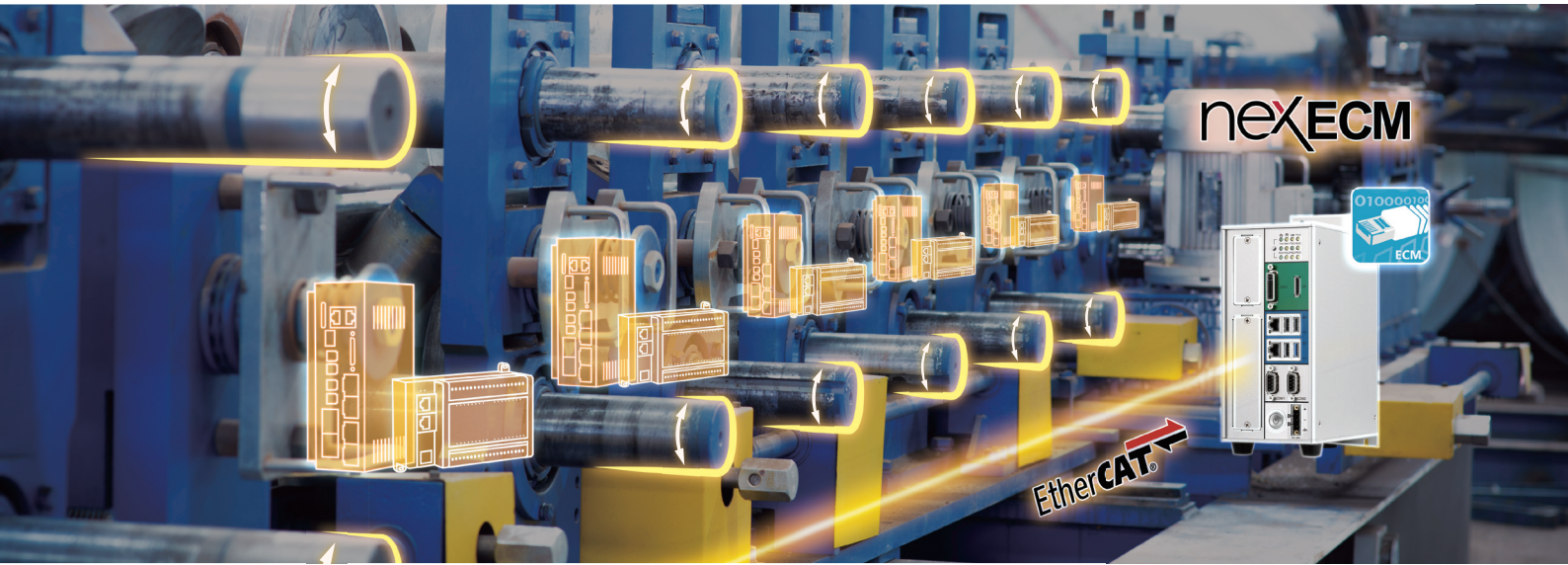


NexECM EtherCAT Master Controller



EtherCAT, a fast, scalable, flexible yet reliable real-time EtherCAT protocol, has been widely adopted by most networked industrial systems. NexCOBOT offers a comprehensive line of EtherCAT controllers by integrating its EtherCAT master software, NexECM. The APIs for CiA 402 profile and built-in EtherCAT configuration tool, NexECM Studio, speeds up development time for users to create customized motion controls for different automation applications. Based on open architecture, NexCOBOT's controllers also ensure max convenience for users to integrate with third party hardware and software on Microsoft® Windows.

◆ **Standard EtherCAT Protocol**

- Support 3rd-party EtherCAT slave modules
- Support up to 64 slave modules
- Low latency: EtherCAT communication cycle up to 250 μs
- Supports DC / PDO / SDO / CiA402 / CoE / FoE / ESI / ENI

- Real time API ready (to work with real-time SDK)

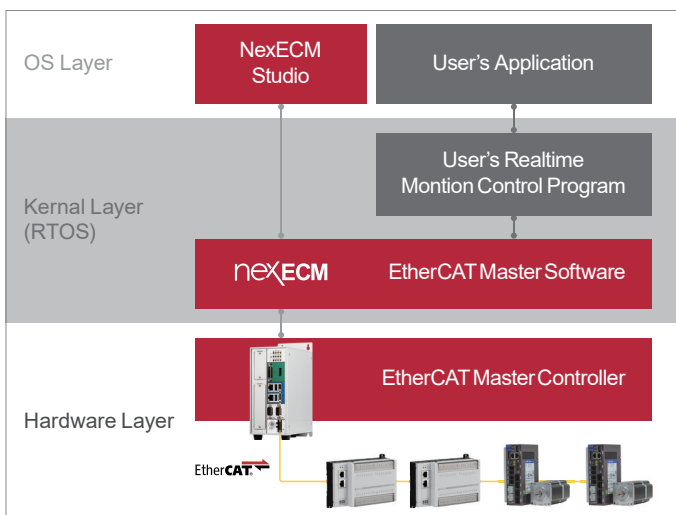
◆ **EtherCAT Software Functions**

- Import ESI files
- Export ENI files
- Edit PDO objects
- Edit CoE initial commands
- Edit EtherCAT topology (Online/ Offline)
- Test EtherCAT communication
- Test EtherCAT slave controller operation

◆ **Open Architecture**

- Real time OS based
- Windows API ready

◆ **Software Architecture**



◆ **EtherCAT Config Tool: NexECM Studio**



▲ User-friendly GUI

▲ Off-line Network Topology Edit

▲ CiA402 Slave Module Test

▲ PDO Parameter Edit

Specifications

Product photo			
Model		ECM-110F	ECM-211F
Software NexECM	Comm. Cycle	Min. cycle time up to 250 μ s	
	Slave No.	64	
	Motion API	CiA 402 Motion Library	
	Example	VB6/VC/VB.NET	
	Supported Function	DC, PDO, SDO, CiA402, CoE, FoE, ESI, ENI	
	Supported OS	Windows Embedded Standard-WES7P (64-bit)	
	Supported RTOS	INtime	
Hardware	CPU	Intel® Atom® J1900, 2.0 GHz	Intel® Core™ i5-6500TE, 2.3 GHz
	Chipset	Intel® Bay Trail-D	Intel® Q170
	Memory	2 x 2 GB DDR3L	1 x 4 GB DDR4
	Storage	128 GB SSD	256 GB SSD
	Display	1 x DVI-I 1 x Display Port	1 x DVI-D 1 x HDMI
	USB	3 x USB 2.0 1 x USB 3.0	2 x USB 2.0 4 x USB 3.0
	LAN	2 x LAN (LAN #1 for EtherCAT, LAN #2 for Ethernet)	3 x LAN (LAN #1 for EtherCAT, LAN #2, #3 for Ethernet)
	COM Port	2 x RS232/422/485	2 x RS232/422/485
	Mini-PCIe	2 x Mini-PCIe socket for optional Wi-Fi/3.5G/4G LTE/ Fieldbus modules	2 x Mini-PCIe socket for optional Wi-Fi/3.5G/4G LTE/ Fieldbus modules
	Power Input Range	24VDC \pm 20%	24VDC \pm 20%
	Operating Temp.	-5°C ~ 55°C	-5°C ~ 55°C
	System Dimensions (W x D x H, mm)	85 x 157 x 214	90 x 185 x 251
	Certifications	CE/FCC Class A	CE/FCC Class A

Ordering Information

- ♦ ECM-110F (P/N: 98ECM110F000F)
- ♦ ECM-211F (P/N: 98ECM211F000F)

NexECM Online Manuals

- ♦ EtherCAT Master User Manuals
- ♦ CiA402 Servo control User Manuals

