NexECMRtx

Hardware platform supported list

ECAT Slave devices testing list

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Revise note:

Date	Ver	Description
2014/12/8	1.0	Create this document 1. Add tested platforms for NexECMRtx 2. Add supported NIC RTX drivers 3. Add tested EtherCAT servo drivers
2015/4/7	1.1	1. Add support platform Nise3640, Nise2310
2015/5/4	1.2	1. Update NIC support list, Intel I210
2015/12/11	1.3	1. Update servo drives List, Maxon- MAXPOS

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Tested Nexcom hardware platforms:

NexECMRtx is tested and optimized for NEXCOM Industrial Computing Platforms. The following table lists the hardware platforms which have been proved to support RTX Ethernet drivers:

Models	EtherCAT Port Numbers	Total Ethernet Port Numbers
Industrial Fanless Computer		
NISE3600 Series	1	2
NISE3640	1	4
NISE4000 Series	1	4
NISE104 Series	1	2
NISE3140 Series	1	2
NISE3500 Series	1	2
NISE2310	1	4
PBOX Rack Mount System (PICMG 1.0/1.3 SBC)		
PEAK872	1	2
Industrial Motherboard		
NEX609	1	2
NEX980	1	2
Industrial Panel PC		
APPC 1530T	1	2

Other Nexcom platform or standard x86 PC/IPC with more than one Ethernet ports could also compatible with NexECMRtx. You can check which network interface cards / chips (NIC) are equipped within the platform. Supported NICs are listed in following table:

NIC	VendorID	DeviceID	NexECMRtx Version	Comment
Intel 82574L	0x8086	0x10D3	2.0.2.1 and later	
Intel 82583V	0x8086	0x150C	2.0.2.1 and later	
Intel I210	0x8086	0x1533	2.5.1.3 and later	

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Tested EtherCAT CoE servo drives / DC servo drives List:

Vendor	Modal Name	Tested / Common
Yaskawa	Sigma-5	Yes
Omron	R88D-KN-ECT	Yes
Schneider	LXM32MU45M2	Yes
Pansonic	Minas A5B,	Yes
Hiwinmikro	D1	Yes
Hiwinmikro	D2	Yes
Delta	ASDA A2-E	Yes
Servotronix	CDHD	Yes
SanyoDenki	RS2E01A0KL4	Yes
MiControl	mcDSA-E65 (DC brush/brushless motor)	Yes
Maxon	MAXPOS	Yes

Testing Items as follow:

Master cycle time = 1 ms

1. ESI file import (NexCAT)
2. ENI file output (NexCAT)
3. EtherCAT state transition, (Can be switch to OP state)
4. PDO (ProcessData) access
5. SDO access, Read/Write CoE objects
6. CoE State Machine can be switched (Servo ON & Servo Off)
7. Cyclic Sync Position (CSP) mode test (With DC enable)
8. Profile Position (PP) mode test
9. Profile Velocity (PV) mode test
10. Home mode (HM) test

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