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~~How to: Setup Ethercat  
Slaves FSoE ASIX EtherCAT  
Slave Controller Solution  
Introduction EtherCAT in 20  
minutes EtherCAT Slave  
Hardware and Software~~

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Introduction to EtherCAT

**Altivar Variable Speed  
Drives from Schneider  
Electric**

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DieBieSlave - LAN9252 based  
EtherCAT slave demonstration  
with NunChuck and MPU9250.

*EtherCAT Device Build a  
simple EtherCAT Slave HMI  
using the AB\u0026T EasyCAT  
shield*

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Easy EtherCAT tutorial with  
EsmaCAT: Interfacing a  
generic EtherCAT slave

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Video 8A - Control Systems

Review - Industrial

Networking Part 2 of 2A

*Practical Approach to*

*building a Real-Time*

*Industrial Ethernet Network*

*for Automation* **RaspberryPi  
and EtherCAT Beckhoff EK1100**

~~EasyCAT and STM32 Nucleo~~

~~Understanding Modbus Serial~~

~~and TCP/IP EtherCAT Master~~

Distributed Clock (DC) tests

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~~With Raspberry Pi EtherCAT  
Motion Control by Raspberry  
pi Master (PiCAT) What is  
EtherCAT? Build a simple  
EtherCAT demo using  
Raspberry, CODESYS and  
Arduino Complete servo drive  
in a compact EtherCAT  
Terminal~~

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electronica 2016 -  
Industrial EtherCAT™ network  
with XMC™**2-DOF Robot arm +**  
**Realtime EtherCAT Master on**  
**Raspberry pi -**  
**<http://www.simplerobot.net>**  
**Introduction to Industrial**  
**Ethernet (Training webinar)**  
**Demonstrating DDR-less**  
**EtherCAT Slave on AMIC110**  
*Demonstrating EtherCAT*  
*Master on Sitara AM57x Gb*  
*Ethernet and PRU-ICSS CLICK*

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~~PLC EtherNet/IP Adapter  
netANALYZER Scope EtherCAT  
Master TwinCAT to EtherCAT  
Slave CIFX 50 RE EtherCAT  
Topology in 2 Minutes  
Demonstrating TI ESC SPI  
Mode DDR-less AMIC110 with  
C2000 EtherCAT Slave 2020.~~

6. 2. EtherCAT Slave -  
Modbus TCP Client  
Communication ~~2-3 Port~~  
~~Ethercat Slave~~

The LAN9252 is a 2/3-port  
EtherCAT slave controller  
with dual integrated  
Ethernet PHYs which each  
contain a full-duplex  
100BASE-TX transceiver and  
support 100Mbps (100BASE-TX)  
operation. The LAN9252  
supports HP Auto-MDIX,  
allowing the use of direct

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connect or cross-over LAN cables. 100BASE-FX is supported via an external fiber transceiver.

~~2/3 Port EtherCAT® Slave  
Controller with Integrated~~

~~...~~

The AX58200 is a 2/3-port EtherCAT Slave Controller SoC with two integrated Fast Ethernet PHYs. AX58200 is equipped with ARM® Cortex®-M4F core with DSP extension runs up to 192 MHz, embedded 512 KB dual bank Flash memory for supporting Over-The-Air (OTA) firmware upgrade, embedded 160 KB SRAM which includes 32 KB cache supporting eXecute-In-Place

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(XIP) to speed up the code execution from external SPI Flash.

~~EtherCAT Technology Group +  
AX58200~~

The LAN9253 is a 2/3-port EtherCAT slave controller with dual integrated Ethernet PHYs, each containing a full-duplex 100BASE-TX transceiver that supports 100Mbps (100BASE-TX) operation. The LAN9253 supports HP Auto-MDIX, allowing the use of direct connect or cross-over LAN cables. EtherCAT P and Signal Quality Index PHY diagnostics are supported.

~~LAN9253 — 2/3 — Port~~

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~~EtherCAT Slave Controller  
with ...~~

2/3-Port EtherCAT® Slave  
Controller with Integrated  
Ethernet PHYs. LAN9252  
DS00001909A-page 2 2015  
Microchip Technology Inc. TO  
OUR VALUED CUSTOMERS It is  
our intention to provide our  
valued customers with the  
best documentation possible  
to ensure successful use of  
your Micro chip

~~2/3 Port EtherCAT® Slave  
Controller with Integrated  
...~~

The AX58100 is a 2/3-port  
EtherCAT slave controller,  
licensed from Beckhoff  
Automation, with two  
integrated Fast Ethernet



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PHYS which support 100Mbps full-duplex operation and HP Auto-MDIX. The AX58100 is interoperable with all EtherCAT systems with standard EtherCAT protocols such as CoE, FoE, VoE, etc. The AX58100 provides a cost-effective EtherCAT slave controller solution for industrial automation, motion/motorcontrol, digital I/O control, ADC/DAC converters control, sensors data ...

~~EtherCAT Technology Group |  
AX58100~~

Additional Features  
Highlights 2/3-port EtherCAT  
slave controller with 3  
Fieldbus Memory Management

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Units (FMMUs) and 4  
SyncManagers Interfaces to  
8/16-bit embedded  
controllers and 32-bit  
embedded controllers with an  
8/16-bit bus Dual Integrated  
Ethernet PHYs with HP Auto-  
MDIX Cable diagnostic ...

## ~~LAN9252~~ — EtherCAT

The LAN9253 includes a 3  
port EtherCAT slave  
controller with 8K bytes of  
Dual Port memory (DPRAM), 8  
SyncManagers, 8 Fieldbus  
Memory Management Units  
(FMMUs) and a 64-bit  
Distributed Clock. This  
device includes feature  
additions over LAN9252 which  
answer our customers'  
requests for enhanced cycle

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time, integration and system level cost savings.

## ~~LAN9253 — EtherCAT~~

- Passes EtherCAT slave conformance testing (CTT) • Software-programmable multi-protocol industrial Ethernet and field bus support using AMIC110 communication processor • Exceeds IEC61800-3 EMC immunity requirements running EtherCAT on both ports: - +/- 6-kV ESD CD per IEC 61000-4-2 - +/- 4-kV EFT per IEC 61000-4-4 at criterion A

## ~~EtherCAT® Slave and Multi-Protocol Industrial Ethernet~~

~~...~~

period, including I/O data

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for EtherCAT Slave Units,  
and the position control  
data for the Servomotors. It  
is accessed from the NJ-  
series Machine Automation  
Controller in the following  
ways. •With device variables  
for EtherCAT slave I/O •With  
Axis Variables for Servo  
Drive and encoder input  
slaves to which assigned as  
an axis SDO Communications

~~EtherCAT Connection Guide~~  
~~OMRON Corporation~~

The AX58100 implements a  
3-port EtherCAT slave  
controller (ESC), the Port 0  
and 1 integrate embedded  
Ethernet PHYs, and port 2 is  
an optional MII interface  
which are multi-function

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With Integrated pins shared with others  
interfaces (i.e. PWM, Hall,  
Local Bus, Digital I/O).

~~AX58100 — 2/3 Port EtherCAT  
Slave Controller | ASIX~~

LAN9252 - Next Generation  
2/3-Port EtherCAT Slave  
Controller. Support for  
multiple interfaces;  
Stability of the standard;  
High integration; Lower  
power consumption; Support  
for FX; Extended temperature

~~EtherCAT | Microchip  
Technology~~

2/3-port EtherCAT slave  
controller with 3 FMMUs and  
4 SyncManagers; Interfaces  
to most 8/16-bit embedded  
controllers and 32-bit

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With integrated controllers with an 8/16-bit bus; Low power mode allows systems to enter sleep mode until addressed by the Master

~~LAN9252 2/3 Port EtherCAT  
Slave Controller — Microchip~~

...

Microchip's LAN9254 is a 3 port EtherCAT device controller (ESC) with dual integrated Ethernet PHYs which each provide a full-duplex 100BASE-TX transceiver and support 100Mbps (100BASE-TX) operation. The LAN9253 supports HP Auto-MDIX, allowing the use of direct connect or cross-over LAN cables. This device provides

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With integrated system developers a cost-effective solution for realizing EtherCAT device solutions.

## ~~LAN9254 — EtherCAT~~

The Microchip LAN9252 is a 2/3-port EtherCAT® Slave Controller (ESC) with dual integrated Ethernet PHYs. The LAN9252 is typically implemented in Industrial Automation solutions and includes the following main features:

- Integrated high-performance 100Mbps Ethernet transceivers

## ~~Integrating Microchip's LAN9252 SDK with Beckhoff's~~

~~...~~

### 3.2 Conformance Test Tool

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(CTT) The EtherCAT  
Conformance Test Tool (CTT)  
makes it possible to  
automatically test an  
EtherCAT slave device's  
behavior. The CTT is a  
Windows program requiring  
only a standard Ethernet  
port. The tool sends  
EtherCAT frames to the  
Device under Test (DuT) and  
receives its responses.

~~EtherCAT Technology Group +  
EtherCAT~~

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~~2 3 Port Ethercat Slave  
Controller With Integrated~~  
Figure 2: Internal structure  
of the EtherCAT Slave  
Controller (ESC) The ESC  
address space is logically  
split in two areas: User  
memory (address ? 0x1000)  
The user memory is used as  
dual-ported RAM to exchange  
application data between  
master and slave, both in  
the form of process data and  
mailbox. The access to this

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memory area is mediated by functional elements called SyncManagers, which ...

## ~~Diagnostics with EtherCAT~~ ~~Part 2 — Automation~~

The AX58100 is a 2/3-port EtherCAT Slave Controller (ESC), licensed from Beckhoff Automation, with two integrated Fast Ethernet PHYs which support 100Mbps full-duplex operation and HP Auto-MDIX. The AX58100 supports the CANopen over EtherCAT (CoE), File Access over EtherCAT (FoE), Vendor Specific-protocol over EtherCAT (VoE), etc. standard EtherCAT protocols and provides a cost-effective ...

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~~2/3 Port EtherCAT Slave  
Controller (ESC) with 2  
Embedded ...~~

The Microchip LAN9252 is a  
2/3-port EtherCAT®Slave  
Controller (ESC) with dual  
integrated Ethernet PHYs.

~~AN1920 — Microchip  
Technology~~

2 3 Port Ethercat Slave  
Controller With Integrated  
As recognized, adventure as  
competently as experience  
very nearly lesson,  
amusement, as without  
difficulty as contract can  
be gotten by just checking  
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slave controller with  
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