Talos-3012

Intel® Atom™ Processor E3845 1.9 GHz-based EtherCAT Master Controller Supporting IEC 61131-3



Introduction

The ADLINK Talos-3012 EtherCAT master controller, based on the Intel Atom quad-core processor E3845 1.9 GHz, with IEC-61131-3 compliant syntaxes, delivers reliable control for multiple axes and versatile I/O control supporting specialized real-time applications.

The Talos-3012 supports up to 64-axis motion control and 30K points within determined cycle times, and is verified for interoperability with various EtherCAT servo drives and 3rd party EtherCAT products.

The compact size and wide operating temperature support in the Talos-3012 permit installation anywhere in the control cabinet while withstanding the most extreme operating environments.

Features

- **Powered by ADLINK Softmotion**
- **Supports IEC-61131-3-compliant programming environment**
- **Minimal control cycle time within 250 μs**
- **Motion control of up to 64 axes and up to 30,000 I/O points of control**
- **Supports EtherCAT COE, FOE as well as EOE protocols**
- **Code executable when host Windows system crashed**
- **Built-in SD socket for logging manufacturing data**
- **3 user-defined indicators for CTR diagnostic**
- **Rugged, compact construction with fanless design at -20°C to 60°C**

Applications

- **Semiconductor**
- **LCM manufacturing**
- **EMS**
- **Power plant data acquisition**
- **Infrastructure date monitoring**

Ordering Information

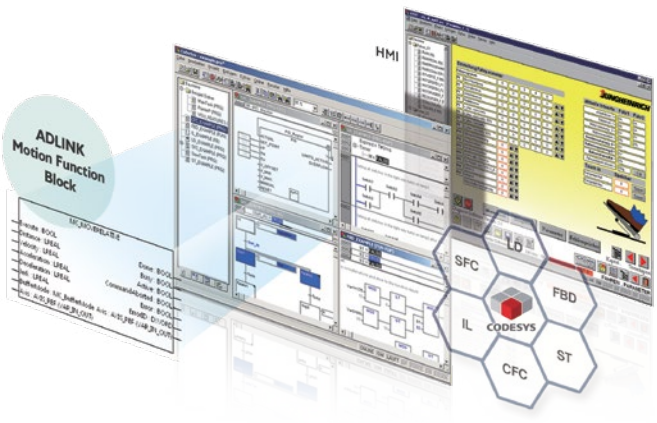
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Specifications

Processor		Intel® Atom™ Processor E3845 1.9 GHz
Controllable Motion Axis		8 / 16 / 32 / 64
Controllable I/O Points		Up to 30,000 points
Control Cycle Time		250 μs (min.)
Memory	RAM (Program & Data Memory)	4GB DDR3
	Retain Memory	Configurable on SD card
	Storage (Date Usage)	32 GB SSD / SD Card
Field Bus Connectivity		1 for EtherCAT
Ethernet Connectivity		1 GbE
System Indicators		3 User-defined
Programming Environment		CoDeSys v3
		(IEC-61131-3-Compliant)
Supply voltage		9-32 VDC wide-range DC input
Environment Certificate		Vibration: 5 Grms, 5-500Hz
		Shock: 50G, Half Sine 11 ms duration
		EMC: EN 55011 class A
Operating Temperature		-20°C -60°C

Software Support

ADLINK's Talos-3012 supports IEC-61131-3 programming environment and provides 5-common syntaxes with integrated ADLINK softmotion algorithms. Also supported is common C language for interface design, for intuitive motion and I/O control with no extra cost burden.



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