

Talos-2000 Series

6th Generation Intel® Core™ i7/i5/i3 Processor-Based Automation Control System with EtherCAT & 4CH GigE Vision Support

Features

- 6th Generation Intel® Core™ i7/i5/i3 Processor
- Up to 64-axis motion control & 10,000 I/O point control via EtherCAT
- Up to 4CH Gigabit PoE (power over Ethernet)
- EtherCAT cycle time up to 250µs
- Broad AVL of EtherCAT slaves, PoE cameras
- Point-table functions enabling application contouring
- Support for up to 16D linear, 3D circular, and 3D spiral interpolation
- Easy installation and maintenance with flexible function extensions via Ethernet connection
- 4CH isolated digital input/4CH isolated digital output

Preliminary



Introduction

ADLINK's Talos-2000 Series ready-to-use automation control system, powered by 6th Generation Intel® Core™ i7/i5/i3 processors, provides EtherCAT control and four independent PoE (power over Ethernet) ports, with data transfer rates up to 4.0Gb/s.

The Talos-2000 Series offers motion control of up to 64 axes, 10,000 I/O points, and 4CH PoE camera connectivity with minimal footprint. The ideal solution for machinery automation, Talos-2110 integrates complete APIs for multi-dimensional, highly synchronized and time-deterministic event-triggered motion & I/O control, high precision image capture, and data transmission.

Field device connectivity in the Talos-2000 Series is provided through RJ45 connection for easy installation, and the latest 6th Generation Intel® Core™ i7/i5/i3 processors enable powerful and flexible EtherCAT slave control, broad PoE camera compatibility, and compact size.

Software Support

- Windows 7/10 32/64-bit, WES7
- APS function library for Motion & I/O Control
- ADLINK MotionCreatorPro 2

Ordering Information

- **Talos-2110/M4G/500G HDD**
6th Generation Intel® Core™ i7/i5/i3 processor-based automation control system with EtherCAT & 4CH GigE Vision support, 4GB RAM and 500GB HDD
- **Talos-2210/M4G/500G HDD**
6th Intel® Core™ i5-6500 3.6GHz processor-based automation system with EtherCAT & 4CH GigE Vision support, 4GB RAM and 500GB HDD
- **Talos-2310/M4G/500G HDD**
6th Intel® Core™ i3-6100 3.7 GHz processor-based automation system with EtherCAT & 4CH GigE support, 4GB RAM and 500GB HDD
- **Talos-2410/M4G/500G HDD**
6th Intel® Celeron™ G3900 2.8 GHz processor-based automation system with EtherCAT & 4CH GigE support, 4GB RAM and 500GB HDD

Optional Accessories

- 160W industrial-grade AC adapter
- DIN rail/wall-mount kit

Specifications

CPU	Intel®Core™i7-6700 / Intel®Core™ i5-6500 / Intel®Core™ i3-6100 / Intel® Celeron® G3900
Chipset	Intel® H110 chipset
System Memory	Up to 32 GB DDR4 at 2133MHz
EtherCAT Comm.	1CH @ 250 µs (min. cycle time)
EtherCAT Motion	Up to 64 axes
EtherCAT I/O	Up to 10,000 points
Camera Interface	4-CH Gigabit power over Ethernet IEEE 802.3af compliant, total max. power output 32 W
Display	2x DisplayPort with resolutions up to 4096 x 2160
USB	4x USB 2.0 ports, 4x USB 3.0 ports (internal USB 2.0 x1)
COM Ports	1x RS-232/422/485, 3x RS-232
Emergency Stop In	1CH
Digital Input	4CH (2CH configured as Pulsar Input)
Pulsar Input Mode	CW/CCW; 1x/2x/4x AB Phases
Pulsar Input Frequency	Up to 1MHz
Digital Input Voltage	24VDC (typ.) / 5VDC for pulsar connection
Digital Input Type	Sourcing type
Digital Output	4CH, Isolated
Digital Output Voltage	24V (typ.)
Digital Output Type	90mA, NPN sinking type
Power Supply	DC 24V, AT mode
Operating Temp	0°C to +55°C (32°F to 131°F)
Humidity	0% to 90%
Dimensions	232(W) x 181 (D) x 86.3 (H)mm
Power Consumption	Up to 160W
Storage	One 2.5" SATA interface
Random Vibration	Operating 0.5 Grms, 5-500 Hz, 3 axes w/ HDD
Safety compliance	CE/FCC, UL, RoHS