TITAN

A new generation of universal servo motor controllers

New Era in Servo Intelligence

UNIVERSAL SERVO MOTOR CONTROLLER **WITH MACHINE LEARNING AND ANALYTICS**

The TITAN-SVX-ETH begins a new generation of motion controllers with advanced servo technology to drive most types of motors, including stepper, BLDC, linear, and voice coil motors

TITAN-SVX-ETH

Universal Servo Motion Controller

servo 5.0

2ND Sight

ETHERNET RS485 USB

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ARCUS SERVO MOTION

TITAN

TITAN-SVX-ETH

Industry 4.0/ IOT ready

with SERVO 5.0 Compatibility

- A universal servo motor controller with advanced servo technology to drive most types of servo motors: Stepper, BLDC, Linear, and Voice Coil
- Supports most commonly used communications: Ethernet, USB, and RS485.
- Equipped with advanced motion control features such as Auto Parameter Detection, Auto Tuning, Force/Torque control, and Multi-thread Motion Programmingt
- Intuitive and easy to use and enables anyone to startup the servo motion system within minutes.
- Ready to meet the new challenges and requirements in the emerging field of Industry 4.0/Industrial IoT with 2ndSight motion edge analytics algorithms and the new Arcus Servo 5.0 standard

Closed Loop Driver Specifications

- 8.0 amp max current setting
- 1 MHz max pulse support
- 24-48 VDC

Advanced Motion Features

- Auto Parameter Detection
- Auto Tuning
- Joystick Control
- Force/Torque Control
- Dynamic Gain Control
- Multi-Thread Programming

Closed Loop Servo Technology

- Pulse Mode or Controller Mode with standalone programming
- Supports all types of motors (BLDC/PMSM/STEPPER/DC)
- Differential Encoder input with encoder output
- 3 digital outputs opto-isolated
- 8 digital inputs opto-isolated
- Hall sensor input
- Intuitive Gain Control

Digital and Analog IO

- 8 Opto-isolated Digital Inputs
  -Controller Mode – Limit+, Limit-, Home, 5 General Inputs
  -Pulse Mode – Pulse, Dir, Enable, Clear, Reset, 3 General Inputs
- 3 Opto-isolated Digital Outputs
  -Controller Mode – 3 General Outputs
  -Pulse Mode – In-pos, Alarm, 1 General Output
- 1 Analog Input 0-5V range

Connector

- 3 pin connector for serial communication
- 15 pin HD DSUB for motion DIO and encoder
- 2 pin mini-fit jr for power
- 4 pin mini-fit jr for motor
- USB mini B connector
- RJ45 Ethernet connector

Communication

- USB 2.0 using Virtual COM Port
- RS485 with 115K Baud
- 100Mbps Ethernet
- Protocols Supported:
  -Arcus ASCII, MODBUS RTU, MODBUS ASCII

TITAN MODULE

STEPPER MOTORS

ARCUS SERVO MOTION™

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