



Main Features

- Dedicated motion control DI/O for every single axis
- 16 channels digital inputs and 16 channels digital outputs
- Support E-CAM, E-Gear, PT and PVT control
- Support standalone procedure access up to 32 tasks
- 6 x USB2.0 ports
- +9 to 30VDC power input
- 3 x RS232 and 1 x RS-232/422/485 with Auto Flow Control
- 2 x Intel® GbE LAN Ports
- 1 x DB15 VGA & 1 x DVI-I

Product Overview

MAC 3500-GTP series is a coordinated motion controller, featuring T/S-Curve, PT (Position-Time profiling), E-Gear and E-CAM functions for machine automation applications requiring more accuracy and excellent performance. Besides the outstanding motion control capability, MAC 3500-GTP series also equips with uncommitted DI/O up to 16 channels DI and 16 channels DO, and no extra add-on cards are needed. MAC 3500-GTP series is the best platform of a compact and stable machine automation controller.

Specifications

System

- CPU:
 - Support Intel® Core™ i7-620M PGA processor (2.66GHz, 4M Cache)
 - Support Intel® Core™ i5-520M PGA processor (2.4GHz, 3M Cache)
 - Support Intel® P4500 PGA processor (1.86GHz, 2M Cache)
- * OnBoard mobile Intel® QM57 platform controller hub
- Up to 4 GB DDR3 800/1066 SDRAM, un-buffered and non-ECC
- ATX power on/off switch & remote power on/off switch
- 2 x Intel® GbE LAN ports
- 6 x USB2.0 ports
- 3 x RS232 and 1 x RS232/422/485 with Auto Flow Control
- 1 x DB15 VGA & 1 x DVI-I, dual independent display supported
- 1 x PS/2 connector
- 1 x Speaker-out and 1 x Mic-in

Motion Control

- $\pm 10V$ 16-bit control output with 4 x AB phase encoder input
- Dedicated HOME, LIMITS and ALARM for every single axis
- Dedicated SVON and Clear for every single axis
- Intelligent look-ahead trajectory planning
- Support PID plus feedforward gain control (PID+Vff+Aff)
- Support E-CAM, E-Gear, PT and PVT control
- Support standalone procedure access up to 32 tasks

General I/O

- Terminal board: uncommitted DI/O up to 16-channel DI and 16-channel DO

Power Requirements

- DC input range: +9 to 30VDC input

Dimensions

- System: 195mm (W) x 268mm (D) x 101mm (H)

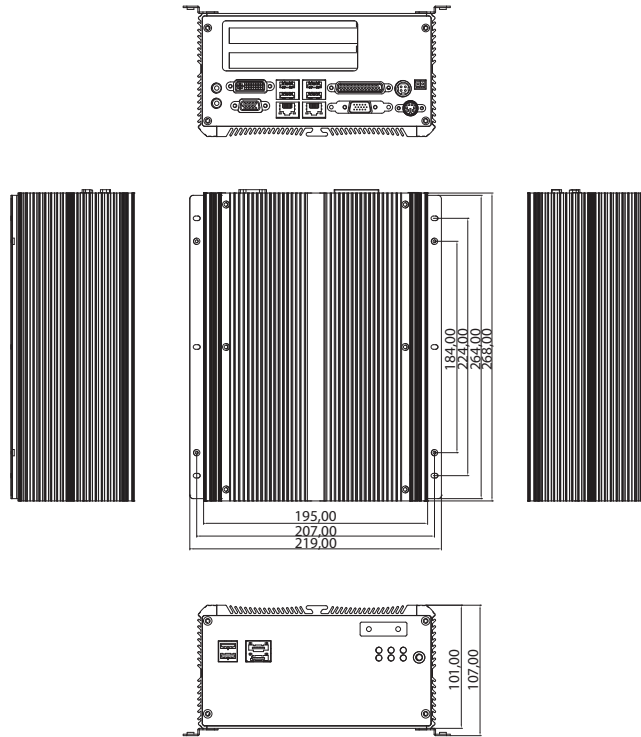
Environment

- Operating temperature:
 - Ambient with air flow: 0°C to 55°C
 - (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 93% (non-condensing)
- Shock protection: 20G, half sine, 11ms, IEC60068-2-27
- Vibration protection
 - Random: 0.5Grms @ 5~500 Hz according to IEC68-2-64
 - Sinusoidal: 0.5 Grms @ 5~500 Hz according to IEC68-2-6

Certifications

- CE
- FCC Class A

Dimension Drawing



Ordering Information

- ♦ **MAC 3500-GTP (P/N:10J30350001X0)**
Compact 4-axis motion controller for coordinated application, Please note that 1 PCI slot is occupied by the motion controller