

Since 1992

FATEK FBs-Series Micro-Programmable Controller



Compact
Hi-Performance
Versatile
Reliable

- 5 Comm. Ports with USB, Ethernet ...
- 16 sets of High-Speed Counter
- 5 sets of High-Speed 0.1ms Tick Timer
- 4 Axes of NC Positioning Output
- 16 points of Bi-Edge Interrupt Input
- 36 points of Captured Input

and most important –Its cost is
much lower than you expect !!

FATEK FBs-Series Micro-Programmable Controller

General Specifications

- ◆ 100~240VAC or 24VDC power supply
- ◆ 0.33 μ S/sequence instruction in average
- ◆ 20K words program capacity
- ◆ Tiny Memory Pack for program and data storage
- ◆ Max. 512 points of Digital I/O
- ◆ 128 points of Analog I/O (14-bit resolution)
- ◆ 3002 points of Internal Relay
- ◆ 19528 words of Data/File Register
- ◆ Real Time Clock for option
- ◆ 256 general Counters and 256 general Timers
- ◆ Built-in digital filter for Digital Input, time constants can be set from 270 nS ~15 mS
- ◆ Windows based programming software with Run-time program editing capability

High-Speed Processing

- ◆ Max. 36 points of captured input
- ◆ 16 points/32 kinds of external interrupt input
- ◆ 5 sets of 0.1mS time-base, High-Speed Timer (16-bit x 1, 32-bit x 4)
- ◆ 4 sets of 32-bit Hardware High-Speed Counter with 8 operation modes (U/D, U/ Dx2, K/R, K/Rx2, A/B, A/Bx2, A/Bx3, A/Bx4), counting frequency up to 750KHz.
- ◆ 12 points of 32-bit Hardware High-Speed Cyclic Counter with 3 operation modes (U/D, K/R, A/B), frequency up to 20KHz.
- ◆ 4 points of PWM output with 100 or 1000 resolution, frequency can be 72 ~ 18.432KHz or 720 ~ 184.32KHz respectively

Communication & Data Link

- ◆ Up to 5 communication ports (USB, RS-232, RS-485, Ethernet) max. speed up to 921.6K bps
- ◆ Built-in FATEK and MODBUS RTU/ASCII Master/Slave communication protocol
- ◆ Support FATEK TCP/UDP, MODBUS TCP communication protocol by optional Ethernet communication module
- ◆ Built-in CPU Link function which can link with PLC directly or through Modem or Ethernet
- ◆ Universal ASCII/RTU communication function can be used for processing of generous communication protocols
- ◆ Through Modem or Ethernet can perform the download, upload, diagnosis and control operation

Numeric Control & Positioning

- ◆ Max. 4 axes of pulse command output in one unit and pulse rate up to 750KHz with 3 operation modes(U/D, K/R, A/B)
- ◆ Motion parameters can be changed dynamically
- ◆ Motion program can be uploaded / downloaded via HMI
- ◆ PLC + NC in one unit and ladder languages supports NC control program directly
- ◆ Multi-axis linear interpolation motion control
- ◆ Tracking or dynamically fixed length movement control

Temperature Measurement & Control

- ◆ Direct interface to J,K thermocouple and Pt-100, Pt-1000 RTD sensors
- ◆ Max. 32 loops of temperature measurement & PID control

Special I/O Module

- ◆ Dedicated 7-segment LED display module for max. 192 7-seg Digits or 1024 LED Lamp displays
- ◆ Dedicated multiplexed input module for 4 Digits x 8 (32 Digits) thumbwheel switch input
- ◆ High density DC Input or DC output module (24 points with 4 cm x 9cm Area)

