## **YASKAWA**



# Complete Motion Control on a PC



MP3100

Models: JAPMC-MC3100-1-E (16 axes)
JAPMC-MC3100-2-E (32 axes)

Better Performance

## **Super-High-Speed Application Processing**



#### Greater CPU Performance

The processing speed is four times faster than the MP2100. The high-speed scan time can be set to as low as  $125 \mu s$ .

#### **@ MECHATROLINK-III**

A  $125-\mu s$  communications cycle enables detailed commands to be sent at high speeds and improves processing precision and tracking accuracy.

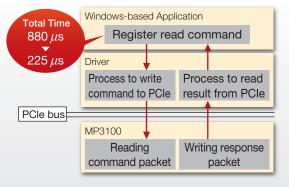
#### 3 High-speed I/O (5 inputs and 4 outputs)

A High-speed I/O Module is built in to provide I/O service with a high-speed scan of  $125 \mu s$ .

#### 4 PCI Express

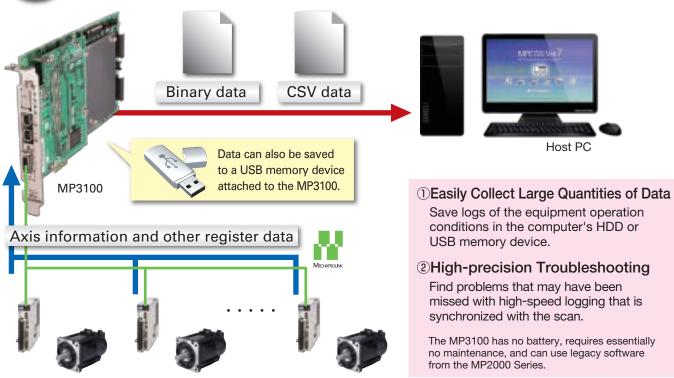
Faster data communications between the Machine Controller and PC reduces takt time.
For example, 500 words of register data can be

read with only about a third of the register access time (in comparison to the MP2100).





## Improved Traceability for Large-Scale Systems



#### ■ Comparison to the MP2100

The MP3100 provides high-speed processing performance, greater precision, increased program capacity, and more application drawings.

Items		MP3100		Existing Products	
		16 axes	32 axes	MP2100	MP2100M
Performance	Rate of Improved Operation	4.0		times faster 1.0	
	Minimum Scan Time	125 μs		1.0 ms	
Memory Capacity	DRAM	256 MB (DDR3)		16 MB (SDRAM)	
	M Registers	1024 K words (battery backup) (E		xtended to 16 times 64 K words	
	G Registers	2048 K words (no	battery backup) (N	wly Added –	
	Program Capacity	15 MB 31 MB		5.5 MB	
Number of Drawings	High-speed Drawing	1000		200	
	Low-speed Drawing	2000		500	
	User Function Drawing	2000		500	
MECHATORLINK I/F		One circuit for MECHATROLINK-III (2 ports) Minimum communication cycle: 125 µs		One circuit for MECHATROLINK-I/II (1 port) Minimum communication cycle: 1 ms	Two circuits for MECHATROLINK-I/II (2 ports) Minimum communication cycle: 500 µs
USB I/F		One USB 2.0 port (for storage device)		_	
Board Size		111.15 (W) × 167.65 (D) mm (PCIe half size)		106.68 (W) × 174.63 (D) mm (PCI half size)	
Approx. Mass		250 g		140 g	210 g

### **YASKAWA**

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 Product Information Site http://www.e-mechatronics.com/en/ In the event that the end user of this product is to be the military and said product is to be employed in any weapons systems or the manufacture thereof, the export will fall under the relevant regulations as stipulated in the Foreign Exchange and Foreign Trade Regulations. Therefore, be sure to follow all procedures and submit all relevant documentation according to any and all rules, regulations and laws that may apply. Specifications are subject to change without notice for ongoing product modifications and improvements.

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