

MECHATROLINK News brings the latest MECHATROLINK information to our members.

Exhibition at SEMICON Japan 2010

The MECHATROLINK Members Association (MMA) will participate in SEMICON JAPAN 2010, to be held from December 1st (Wed) to 3rd (Fri).

We will demonstrate the connectivity of member companies' MECHATROLINK-II and III compatible products in a clear and easy-to-understand manner. With so many more products compatible with MECHATROLINK, visitors can get a better idea of MCHATROLINK benefits and improved functions.

In an on-stage demonstration, we will explain the advantages each network and the key points in network selection. MECHATROLINK-compatible products of member companies will be exhibited on each table and visitors will be able to get detailed explanations while examining the actual machines. We are looking forward to seeing you at the exhibition.

Date	Dec. 1 st - 3 rd , 2010
Place	Makuhari Messe
Booth No.	4D-801

◆Participating MMA member companies

- ANYWIRE CORP.
- M-System Co., Ltd.
- ORIENTAL MOTOR Co., Ltd.
- Sankyo Seisakusho Co.
- TIETECH Co., Ltd.
- Digital Electronics Corp
- TOKYO ELECTRON DEVICE LTD.
- Nikki Denso Co., Ltd.
- Nichigoh Communication Electric Wire Co., Ltd.
- FORKS INC.
- MYCRONET Co.
- YASKAWA Electric Corp.
- Yokogawa Electric Corp.
- Advantech Co., Ltd

We'll have a presentation at the booth.



Come and see us!



MMA booth at SEMICON2010

Report on the MECHATROLINK Seminar at DMP2010

The MMA held a seminar at the DMP2010 (12th China Dongguan International Mould and Metalworking Exhibition) held in Dongguan, Guangdong, China.

The DMP2010 presented a multi-national atmosphere, as many foreign companies participated in the exhibition.



A bird's eye view at DMP2010



Participants at the seminar

The MECHATROLINK seminar was held Nov. 18 and 19 and 35 people participated. At the seminar, visitors showed particular interest in the machines exhibited for demonstration of MECHATROLINK.

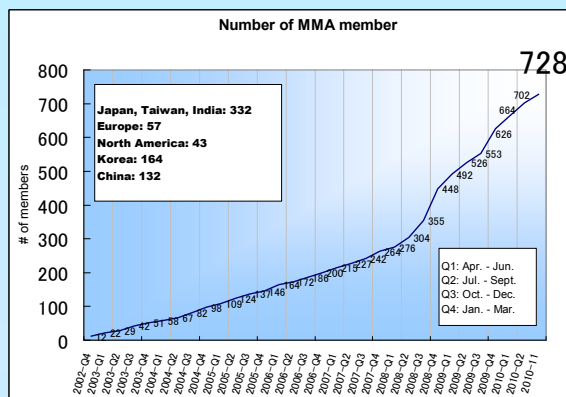
Fifteen companies joined the MMA during the exhibition, reflecting the heightened interest in networks in China.

We are determined to continue our efforts to promote MECHATROLINK in Asian countries.

Increase in MMA Members

Now over 700 companies

677 companies (July, 2010) ⇒ **728 companies (Nov., 2010)**
An increase of **51 companies** since the end of July when Vol.19 was issued!



ANYWIRE CORP.

MECHATROLINK-compatible bit distributed I/O terminal Model:AB023-M2

Features:

This bit distributed I/O terminal is the ideal device to allow establishment of I/O terminals with smaller number of points that are controlled with MECHATROLINK-III communications. I/O signals can be transmitted, and the power to I/O terminals is supplied simultaneously through the same cable. The transmission line can be branched and the disconnection detection function is provided.

The MECHATROLINK-III bit distribution I/O terminal can be connected to I/O terminals of up to 256 points for input and 256 points for output. (Maximum I/O points per one AB023-M2).



Specifications:

I/O: 512 points (In:256 + Out:256)

Port: 1 port

Connection: 128 units max

Wiring distance: Total length - 50m max

Transmission cycle time (per one cycle time):

3.2ms when 128 points, 5.5ms when 256points, 10.3ms when 512points

Note: The cycle time is a value measured between one cycle and the next cycle.

Connection cable: General purpose VCTF 2-core cable (0.75 to 1.25sq), or general purpose 2-core cables (0.75 to 1.25sq)

Power Supply: 24VDC, +15 to -10%

Inquiries: ANYWIRE CORP.

Head office: 8-1, Shimoinden, Inouchi, Nagaokakyo-shi,
Kyoto 617-0813

TEL: +81-75-956-1611 FAX: +81-75-956-1613

TOKYO ELECTRON DEVICE LTD.

MECHATROLINK-III Master IP Core

The number of parts on a board, development cost, and the time required for development can be greatly reduced by using this IP core developed for the XILINX's FPGA.

Features:

- Master function
- Intelligent functions can be realized with one chip by utilizing the FPGA, equipped with the built-in CPU in which RTOS is mounted.
- Able to synchronize with up to 66MHz clock and make connections with a high-speed synchronous bus such as PCI without lowering throughput.

Specifications:

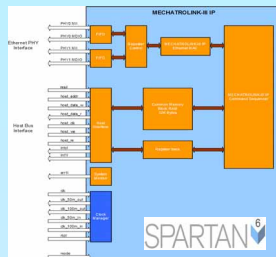
Applicable FPGA :

Spartan-6 LX/ Spartan-6 LXT

Manufactured by Xilinx

Network:

MECHATROLINK- III × two ports
(For M-II in 100Mbps, exclusively for full duplex)



Host interface: 32bit shared memory interface/ 32bit register interface

Interruption: Two levels of interruption request output

Endian: Little endian

Inquires: Tokyo Electron Device LTD.

1-4 Kinko-cho, Kanagawa-ku, Yokohama,
Kanagawa 221-0056

TEL: +81-3-5402-4502 FAX: +81-3-5402-4580

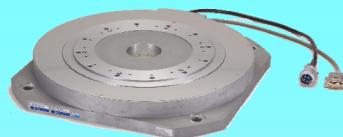
Nikki Denso Co., Ltd.

VCII series AC servo system

Features:

The VC II can drive linear servomotors, synchronous type AC servomotors, and inductive AC servomotors as well as high performance direct drive servomotors (DD motors). It is the high performance servo drive that can maximize motor performance in operations, including operation with high response and low-speeds. Equipped with various functions that bring out the best performance of motors.

- Auto notch filter function that increase the efficiency of resonance suppression operation.
- Gain selection function that allows users to choose from 4 kinds of gains depending on the load conditions.
- Vibration suppression function that effectively suppress vibrations at machine tips.
- Software with which operational, monitoring, and analyzing functions can be edited, making startup work more efficient.



Specifications

*Contact Nikki Denso Co., Ltd. for details.

Item		Specifications
MECHATROLINK Communications	Motion control	Position control with the MECHATROLINK-III communications
	Command input	MECHATROLINK-III command (alarm, read warning, interpolation feed, positioning etc.)
Auto tuning function		By setting parameters, this function can be used even with large inertia ratio.
Gain selection function		1. Select from 4 kinds of gains. 2. One of 4 is a position loop gain.

Inquiries: Sales Department, Nikki Denso Co., Ltd.

2-8-24 Arima Miyamae-ku Kawasaki-shi Kanagawa
216-0003

TEL: +81-44-855-4311 FAX: +81-44-856-4831

New MMA Members

DMP Electronics Inc., HIMS, Schleicher Electronic GmbH & Co.KG, SUNNYTECH s.r.l., Sunwell Machines Co., LTD., Taian Automation Co., LTD., USE Electronics Co., Ltd., Micro Base Technology Corp., Well Time Steel Co., Ltd., and King Yuan Electronics Co., Ltd.

(*Only those companies that gave us permission for disclosure are listed here.)

Future Events

Dec. 1 to 3, 2010: SEMICON JAPAN 2010

Jan. 31, 2011: MECHATROLINK Fair in Aichi, Japan

Feb. 1, 2011: MECHATROLINK Fair in Nagano, Japan

March 8 to 11, 2011: AIMEX2011in Korea

March 15 to 17, 2011: SEMICON China 2011

Inquiries:

For questions about joining the MECHATROLINK Members Association and other inquiries, please contact the MMA.

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