



English catalog - June 2025 -

OPEN FIELD NETWORK MECHATROLINK



{ MECHATROLINK Members Association Website }

<https://www.mechatrolink.org/>

The MMA website provides the following information:

- About MECHATROLINK
- Guide to the MECHATROLINK Members Association
(Download the membership agreement and application form.)
- Members list
(Includes only members who have given their permission.)
- MECHATROLINK compliant products
- Contract manufacturers
- News & Events
- Technical information
(Download the latest technical documents.)
- Compliance/Certification testing
(Download the application form and test specifications.)
- MECHATROLINK Products of MMA Members Brochure
- Q & A



*Members ID and password are required for downloading each material.

{ MECHATROLINK Products of MMA Members Brochure }

A MECHATROLINK products brochure can be downloaded from the MMA website.



MECHATROLINK MEMBERS ASSOCIATION

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Taking control networks
to the next level



O P E N F I E L D N E T W O R K

The Beat of the Machine

— The control network in an automated system is like the central nervous system in the human body, small in size yet able to control everything from head to toe. The MDevice device in a control unit requires a precise connection to each distributed, internal SDevice device. The control network communicates MDevice commands to all SDevices, and all the SDevices' states are reported to the MDevice.

— The machine can function only when precise, accurate data flows as freely as impulses to a nerve ending. This connectivity will now step up to a new level, thanks to instant worldwide communication via internet and cloud computing. A new age is right around the corner, and MECHATROLINK is destined to play a leading role in this new era of connected productivity.

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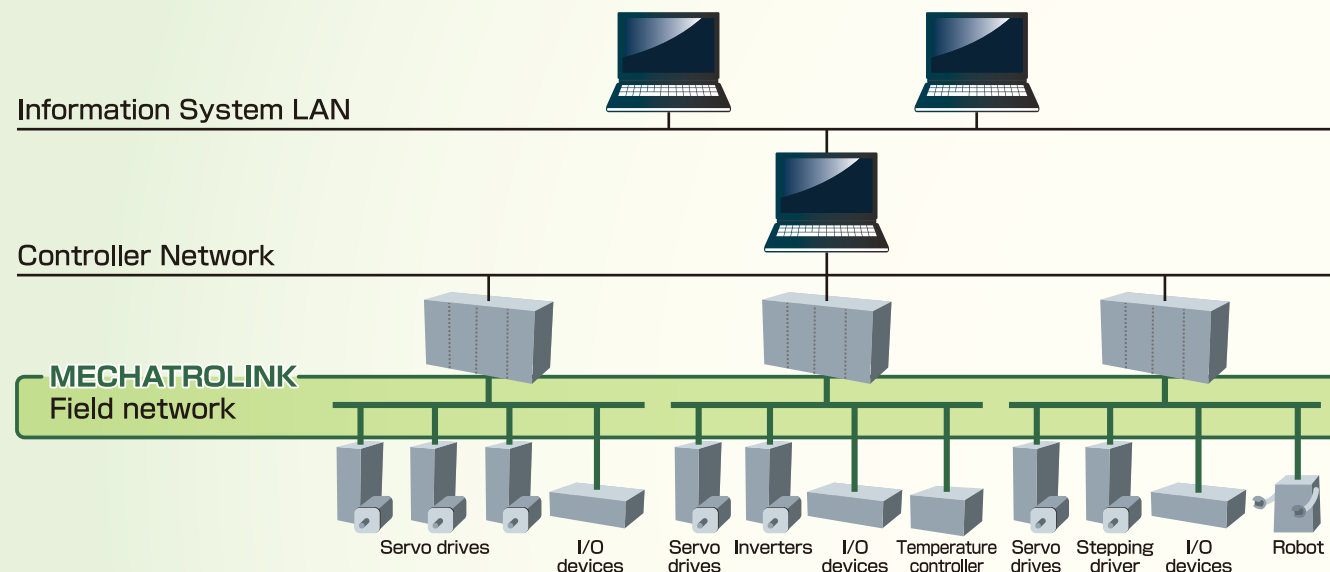
MECHATROLINK

MECHATROLINK is an open field network that connects a controller with a variety of devices. High-speed communications and data synchronization are provided to increase system speed and provide advanced functionality.

Moreover, MECHATROLINK uses simple cable connections to reduce wiring, downsize the system, and enable easy system expansion.

Positioning of MECHATROLINK

MECHATROLINK is positioned as a Field Network. A Field Network is a network that drives control elements of a control system such as I/Os and actuators, and allows devices for input control information to be connected.



MECHATROLINK Specification

High-speed MECHATROLINK-III and general MECHATROLINK-II

MECHATROLINK has two specifications: high-speed MECHATROLINK-III and general MECHATROLINK-II. The demand for MECHATROLINK-III is increasing especially rapidly, due to growing demand for high-speed, high-precision industrial machines. MECHATROLINK-III adopts Ethernet as the physical layer and supports a wide range of communication cycles from 31.25μsec to 64msec, which is the fastest cycle time in the industry. It is also capable of supporting up to 62 nodes and flexible topologies such as a cascade or star. Message communication and cyclic communication can occur separately, allowing devices at the top of the control hierarchy to seamlessly gather information from all devices in the system.

MECHATROLINK-III/II Communications Specifications

Function Specification	MECHATROLINK-III	MECHATROLINK-II
Physical Layer	Ethernet	MECHATROLINK-II
Baud Rate	100Mbps	10Mbps
Transmission Cycle Time	31.25μsec~64msec	250μsec~8msec
Data Size	8/16/32/48/64 bytes (Different data sizes can be used as the same time)	17 bytes or 32 bytes (Both data sizes cannot be used at the same time)
Number of SDevices	62 max.	30 max.
Maximum Transmission Distance	100 m between stations	50 m total (100 m with Repeater)
Minimum Distance between Stations	20cm	50cm
Topology	Cascade, star	Bus
Cyclic/Event-driven Communications	Cyclic and event-driven communications supported	Cyclic communications possible
Message Communications	Available	None
Multi-SDevice Function	Available	None

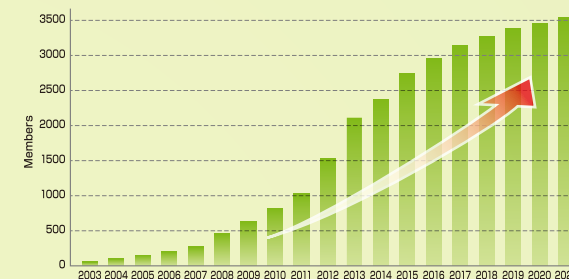
Realization of high-value added due to a motion control with high spec synchronization Six merits of MECHATROLINK

1 Network from Japan

MECHATROLINK is a network born in Japan. The Japanese reputation for sophisticated technology and high reliability contribute to creating a confident environment for the network's users.

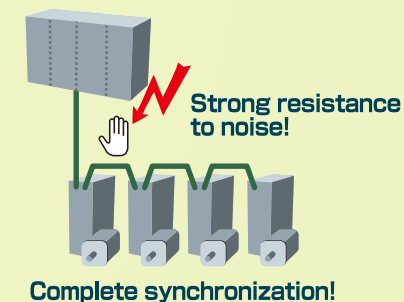
2 Open Network

All technical materials can be downloaded by members, enabling the development of MDevice and SDevice devices freely.



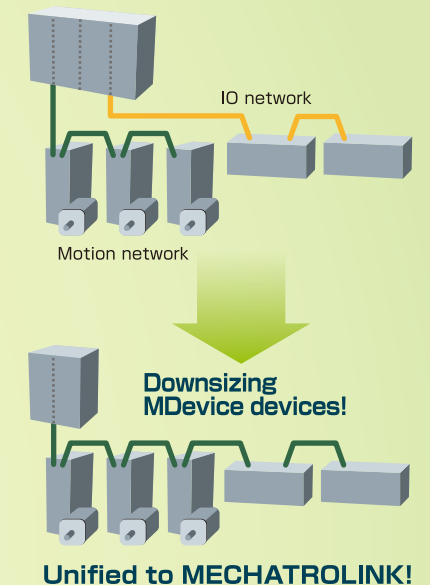
3 High Reliability

The ASIC assures synchronization of the internal system, which creates a more reliable connection to the Controller. Due to its retry function, MECHATROLINK can detect a communication error automatically and initiate a resending process during the same communication cycle. It has adopted a set of connectors and cables which offer strong resistance to noise and vibration.



4 Low Cost

Developers can download all the necessary software tools at no charge, including ASICs, access drivers, sample applications and standard circuit diagrams. MECHATROLINK users benefit from a wire-saving system which integrates motion networks with IO networks, reducing system cost.



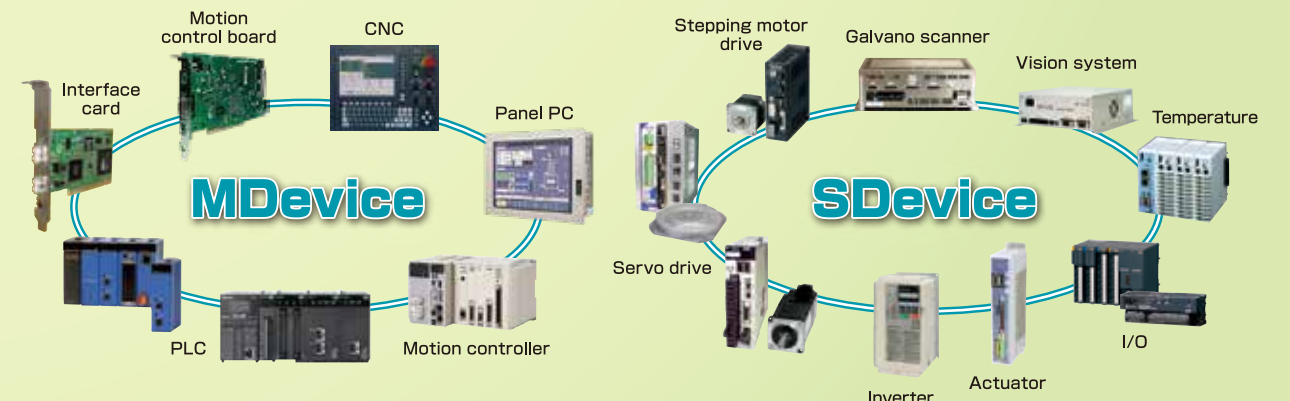
5 Easy Development

Communication is achieved by mounting ASICs to both MDevice and SDevice devices. Communication functions can easily be embedded into an individual device, rather than relying on a MDevice device to implement all communication processes through a more complex software-based approach. Various tools are available to help minimize system development time.



6 Various MECHATROLINK-Supported Products

Various companies sell the products supporting MECHATROLINK. These products from the world-leading manufacturers can be assembled to build a system.



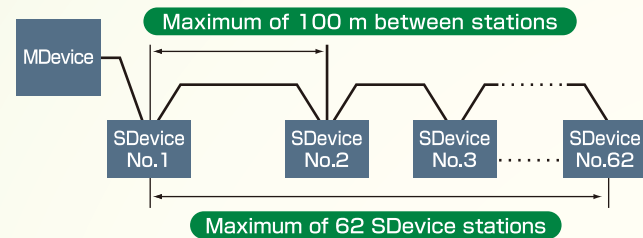
High-Speed MECHATROLINK-III

MECHATROLINK-III achieves high-speed communications at a baud rate of 100 Mbps by applying Ethernet technology to the physical layer. Furthermore, MECHATROLINK-III controls 62 SDevices in perfect synchronization using ASICs while achieving the high-speed cyclic communications required for motion control and high-capacity message communications.

MECHATROLINK-III

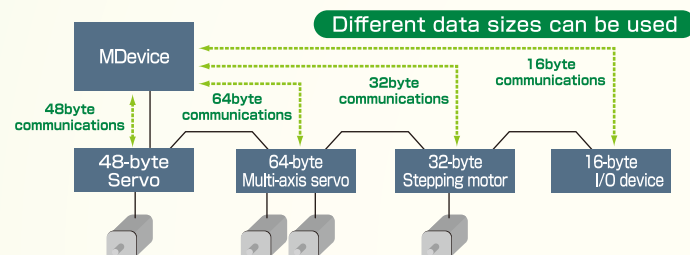
1 High speed network, multi axis control

- Ultra high-speed communications at a baud rate of 100 Mbps and a minimum transmission cycle of 31.25 μ sec.
- Connects up to 62 SDevice stations.
- Supports large- and small-scale systems with a maximum node-to-node distance of 100 m and a minimum station-to-station distance of 20 cm.



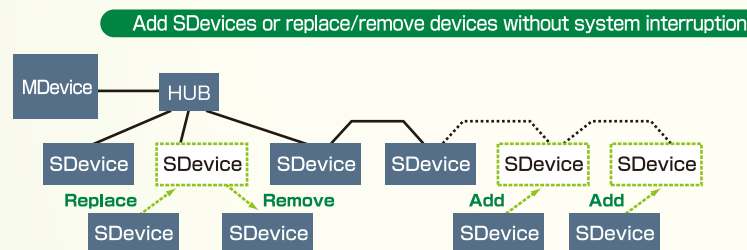
2 Combine of different data size

- Allows combining the use of different data sizes (8, 16, 32, 48, and 64 bytes), making it possible to select the optimum size for each device.



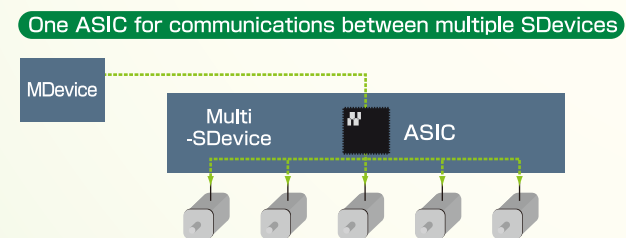
3 Hot plug

- Replace or add SDevices while the machine is running.



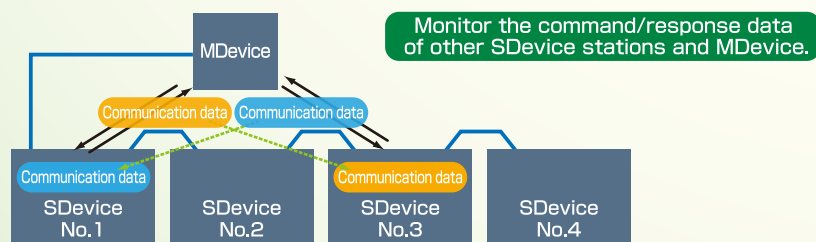
4 Multi-SDevice function

- Use the Multi-SDevice function to control multiple SDevices with a single communication ASIC.



5 Monitor-SDevice function

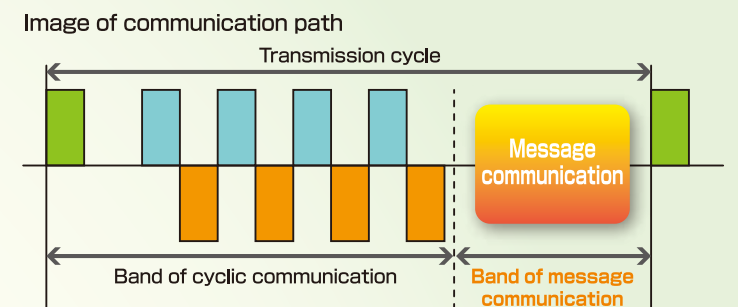
- A Monitor-SDevice can receive the command/response data of other SDevice stations as well as data from the MDevice. This function enhances the speed of the entire system.



Message Communication

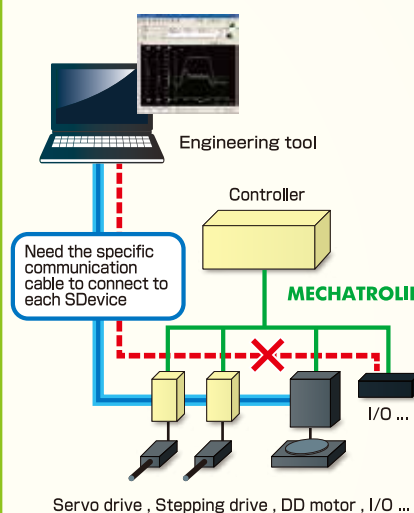
About message communication

MECHATROLINK-III can send data between MDevice and SDevice devices at any time, without the need to synchronize with the timing of a MDevice device. Message communication utilizes the same areas of the transmission cycle used by cyclic communication, guaranteeing ease of synchronization.

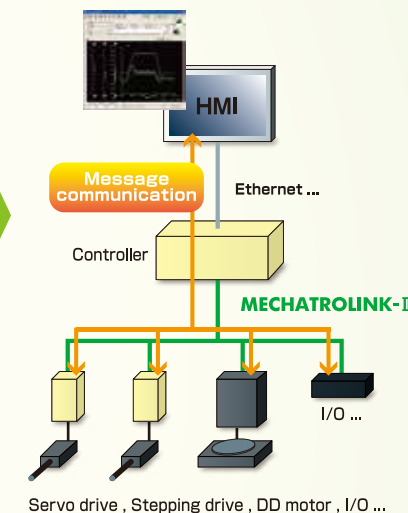


Benefit of the message communication system

Actual (w/o message communication)



Message communication system



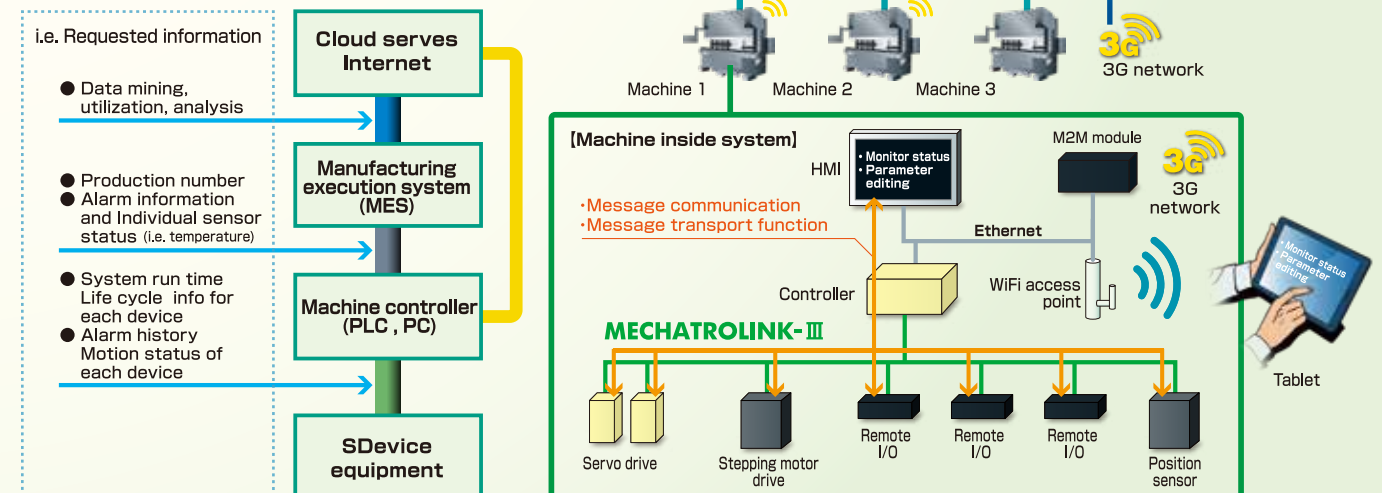
Benefits !

- Control the various devices in a network via MECHATROLINK-III tools for your HMI.
- Acquire the high-speed logging data from each device, without the need to use the register data of the controller.
- The network can be used as the infrastructure of M2M / IoT.

Further Utilization of Message Communication and IoT/M2M Equipment

MECHATROLINK-III message communication delivers information between devices to an HMI via MDevice controller. In addition, it can build a higher level production system by adapting to Industrie 4.0 with M2M and cloud service.

[System of taking information and usage]

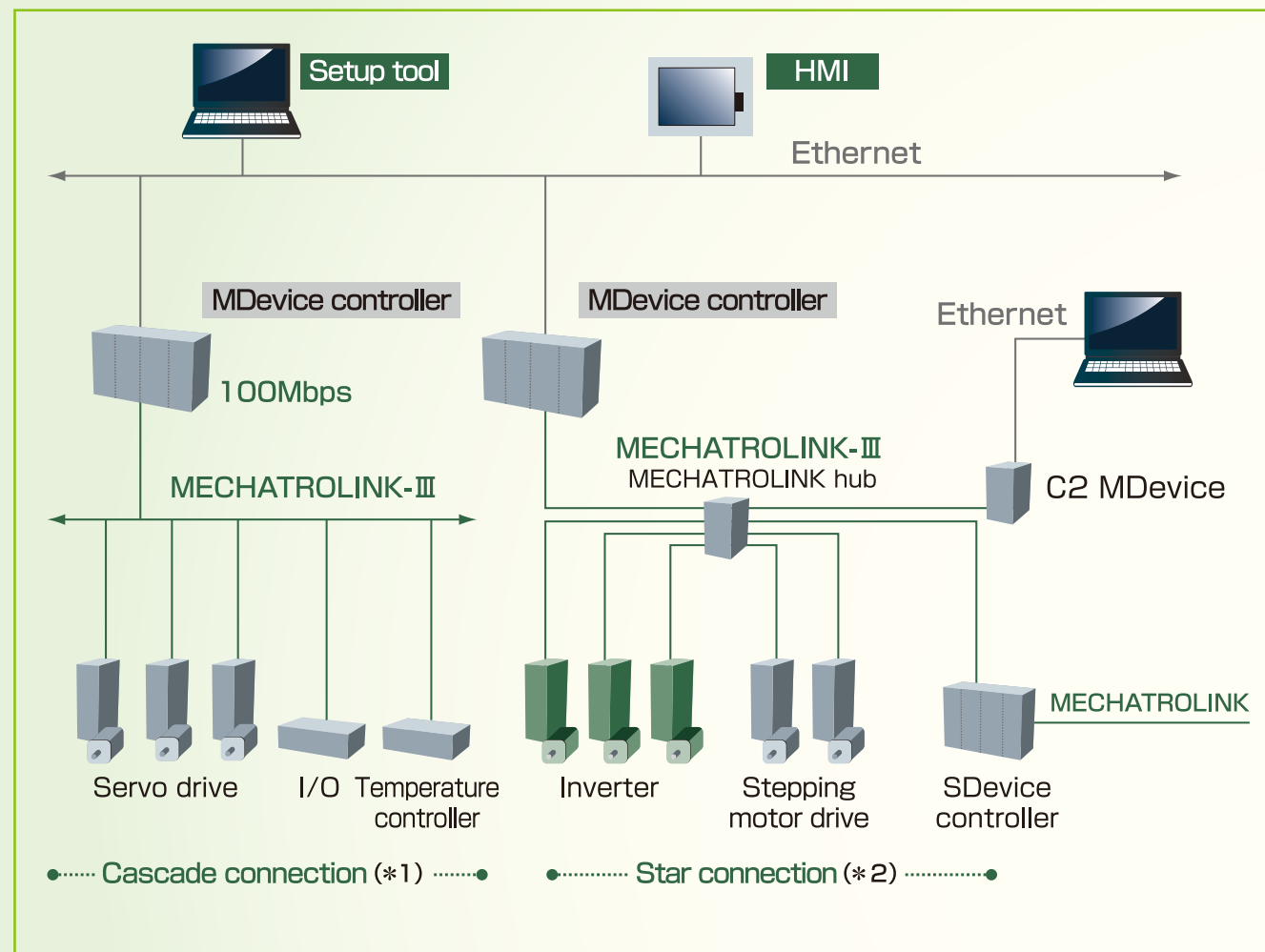


MECHATROLINK-III

MECHATROLINK-III System Configurations

MECHATROLINK-III supports a variety of system configurations through cascade connections or star connections using a hub.

- Connects up to 62 SDevice stations to a single C1 MDevice station.
- Support Tools can be connected as C2 MDevice stations.



Note : (*1) **Cascade connection** : A SDevice device can be easily connected to the MDevice without using a hub.

(*2) **Star connection** : Devices connected to a hub can be plugged or unplugged without shutting down the system. More nodes can be connected per cycle time than that with a cascade connection.

Maximum Number of SDevices

The maximum number of SDevices connected to MECHATROLINK-III is determined by the transmission cycle time and data size.

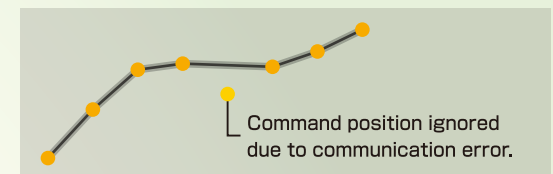
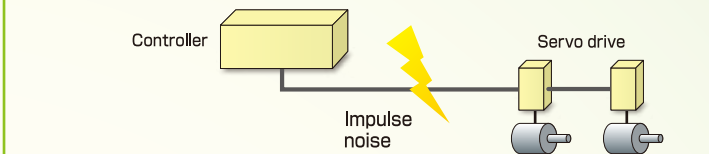
Transmission Cycle Time (μsec)	Number of SDevices			
	16byte	32byte	48byte	64byte
31.25	1	1	0	0
62.5	2	2	2	2
125	6	6	5	4
250	11	11	10	9
500	19	19	18	17
1000	31	31	29	28
2000	49	49	47	45
3000	62	62	61	59
4000	62	62	62	62
5000	62	62	62	62
6000	62	62	62	62
7000	62	62	62	62
8000	62	62	62	62

Note:

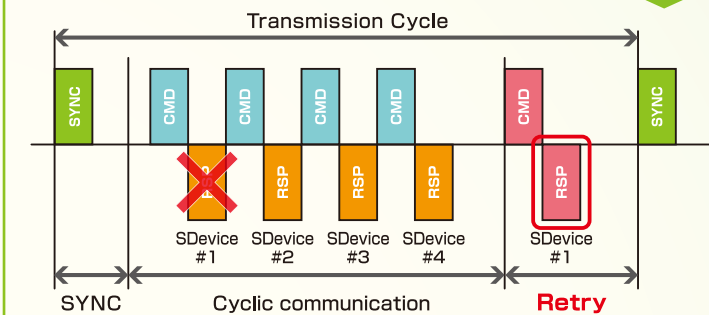
1. The data in the left table is cascading connections from the MDevice product with two port, and each cable length is 0.2m.
2. Refer to individual product specifications for specific product information.

The Mechanism Behind MECHATROLINK's High Reliability

When the communication abnormality is generated



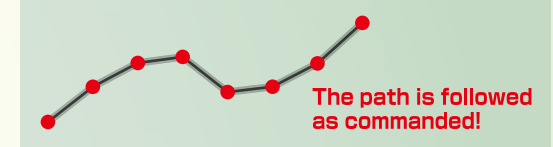
Using the retry function



Benefit !

If a communication error is detected

The MDevice ASIC sends the command to the SDevice again in the same cycle. The CPU is not involved in the retransmission.



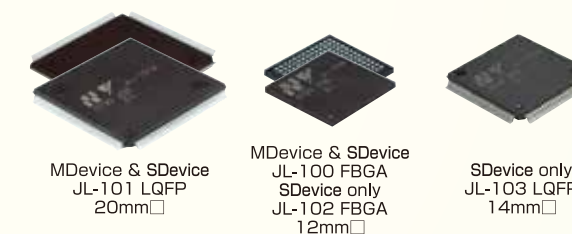
This function is both for MECHATROLINK-III and MECHATROLINK-II.

MECHATROLINK-III Hardware

MECHATROLINK-III communications ASICs are available. Commercially available parts are also specified or recommended for other components, and standard circuits are available so that you can design your own devices.

Two types of connectors are available for MECHATROLINK-III

- RJ-45 with FA Specification
The user assembles the RJ-45 with Cat5e STP cable.
- Industrial Mini Connectors
Assembled models available.



MECHATROLINK-III Software

A number of MECHATROLINK command sets are available for the application layer for different profile types.

Profile Type	Profile Group	Profile
00	M-II compatible	M-II compatible
01	ID Info acquisition	ID Info acquisition
02 ~ 0F	Reserved	Reserved
10 ~ 1F	Servo profile	Std Servo profile Multi-axis servo profile High-res servo profile :
20 ~ 2F	Inverter profile	Std Inverter profile :
30 ~ 3F	I/O profile	Std I/O profile :
40 ~ 7F	System reserved	System reserved
80 ~ FF		

0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NOP	PRM_RD	PRM_WRT	ID_RD	CONFIG	Common Commands									
1	POS_SET	BRK_ON	BRK_OFF	SENS_ON	SENS_OFF	PPRM_RD	PPRM_WRT	SYNO_SET	CONNECT	DISCONNECT					
2	SMON	SV_ON	SV_OFF	INTERPOL	ATE	POSING	FEED	EX_FEED	EX_POSING	ZRET	VELCTRL	TROCTRL			
3	SVPRM_RD	SVPRM_WRT													
4	Profile Specific Commands														
5															
6															
7															
8															
9															
A															
B															
C															
D															
E															
F															
Vendor Specific Commands															

Commands table

Byte	Command	Response
0	POSING (35h)	POSING (35h)
1	WDT	RWDIT
2	CMD_CTRL	CMD_STAT
3		
4		
5	SVCMD_CTRL	SVCMD_STAT
6		
7		
8		
9	SVCMD_IO	SVCMD_IO
10		
11		
12		
13	TPOS (Target position)	CPRM_SEL_MON1
14		
15		
16		
17	TSPD (Target speed)	CPRM_SEL_MON2
18		
19		
20	ACCR (Acceleration)	MONITOR1
21		
22	DECR (Deceleration)	MONITOR2
23		
24		
25		
26		
27		
28		
29	TLM (Torque limit)	MONITOR3
30		
31		

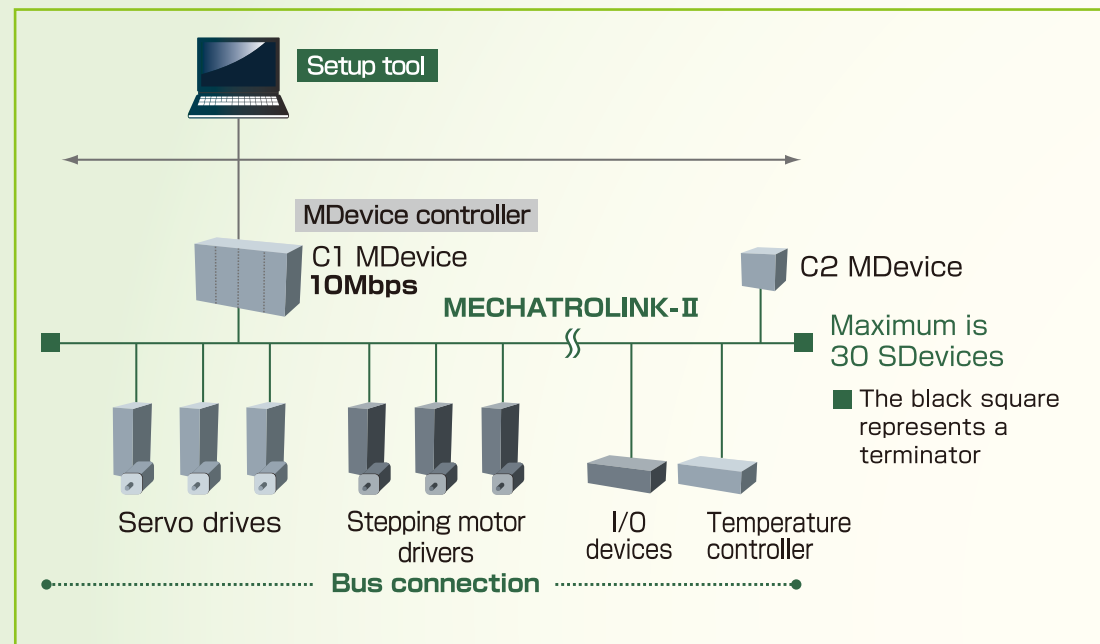
Command sample

The command set for the standard servo profile of MECHATROLINK-III has been improved with the addition of new functions. For example, a new positioning command makes it possible to specify the acceleration/deceleration and torque limit at the same time.

General MECHATROLINK-II

MECHATROLINK-II is an open field network that connects up to 30 SDevice stations in perfect synchronization. Although MECHATROLINK-II is specialized for motion control, it also provides remote I/O signals across to the same network.

MECHATROLINK-II System Configuration



- Connects up to 30 SDevice stations to a single C1 MDevice station.
- Support Tools can be connected as C2 MDevice stations.

Maximum Number of SDevices

MECHATROLINK-II can transmit 17 or 32 bytes of data per SDevice. The following table shows the maximum number of SDevices to be connected in accordance with data size and transmission cycle.

Transmission Cycle Time (msec)	Number of SDevices	
	17byte	32byte
0.25	2	1
0.5	7	4
1.0	15	9
1.5	23	15
2.0	30	21
2.5	30	26
3.0	30	30
3.5	30	30
4.0	30	30
4.5	30	30
5.0	30	30
5.5	30	30
6.0	30	30
6.5	30	30
7.0	30	30
7.5	30	30
8.0	30	30

Note :

- 1) This data in this table also serves as the communication specifications for MECHATROLINK-II. Some MDevice devices may support fewer SDevices than are listed here.
- 2) No retries or C2 MDevice devices

MECHATROLINK-III/II Support Tools

A rich array of support tools are available to assist in the development of MECHATROLINK-III/II compliant products.

Development Parts

YASKAWA ELECTRIC CORPORATION

MECHATROLINK- I / II ASIC

MDevice & SDevice JL-080B (5 V)*
MDevice only JL-098B (3.3 V)*
20 mm□

SDevice only JL-052C (3.3 V)*
14 mm□

MDevice & SDevice JL-101 LQFP *
20 mm□

MDevice & SDevice JL-100 FBGA *
SDevice only JL-102 FBGA *
12 mm□

SDevice only JL-103 LQFP
14 mm□

MECHATROLINK-II Pulse Transformer
T202004ND

* The source code for the ASIC driver software can be downloaded from the MMA website.

MECHATROLINK-II Sample Kits
JEPMC-OPM2SK-1-E for JL-080
JEPMC-OPM2SK-2-E for JL-052
JEPMC-OPM2SK-3-E for JL-098

MECHATROLINK-III Sample Kits
JEPMC-OPM3SK-1-E for JL-100
JEPMC-OPM3SK-2-E for JL-101
JEPMC-OPM3SK-3-E for JL-102
JEPMC-OPM3SK-4-E for JL-103

YASKAWA Europe GmbH (profichip embedded solutions Dept.)

ANT1000
15 mm□

ANT1001
19 mm□

Real-time Ethernet Communication Controller ANTAIOS

Microcode and software stack based implementation for MECHATROLINK-III MDevice/SDevice

TOKYO ELECTRON DEVICE LIMITED

MECHATROLINK-III Master and Slave IP core
Supporting FPGA : Xilinx Artix-7

ECPI/ ECP5-5G Lattice

MECHATROLINK-III Multi Slave IP core
Supporting FPGA : Lattice LFE5UM-45F-8

SYSTEC Corporation

SYM3A

Master/Slave IP core for FPGA produced by Intel

Sitara™ AM335x ARM™ Processors

Slave Software-IP for Sitara™ processors produced by Texas Instruments

Development Tools

YASKAWA ELECTRIC CORPORATION

MECHATROLINK-II Network Analyzer

87215-95121-S0103
An RS-232C port is required on the PC.

Enables online monitoring of communications status. The trace and trigger functions are provided. The Windows-based software for the Network Analyzer must be installed on the PC.

Hilscher Japan KK

netANALYZER
NANL-B500G-RE

YE DIGITAL Corporation

MotionWire StarterKit

Can be used as a C1 MDevice for MECHATROLINK-II SDevice development

MECHATROLINK Members Association

MECHATROLINK-III Utility Software

Place icons in position and connect them with lines to easily design a system and then automatically calculate the transmission cycle.

MECHATROLINK-III Sample application
Includes a sample application in C-language source code as a support tool for software development.

10 MECHATROLINK

MECHATROLINK 11

MECHATROLINK Applications

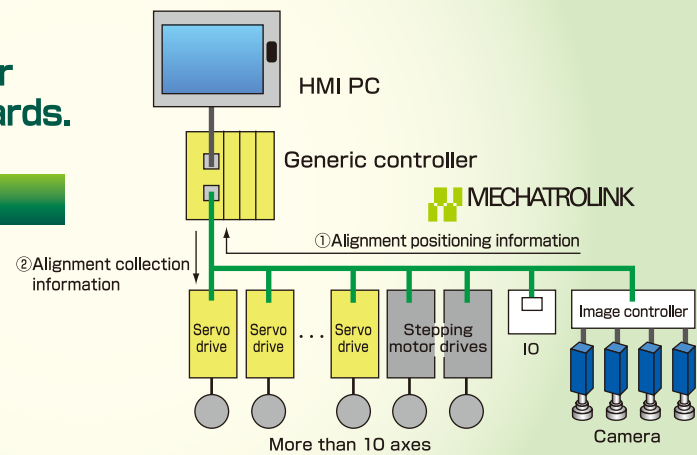
MECHATROLINK has been used in diverse applications, such as those for machine tools, industrial robots, machines for mounting electronic parts and machines for transferring. It is especially suitable for synchronous and interpolated motion control. MECHATROLINK enables control of torque, positioning, and velocity – all of which are necessary to control your machine. Also, the control modes for velocity, torque, and position can be switched while the machine is running, so you can perfectly control the machine's complex motions.

MECHATROLINK SOLUTION 1

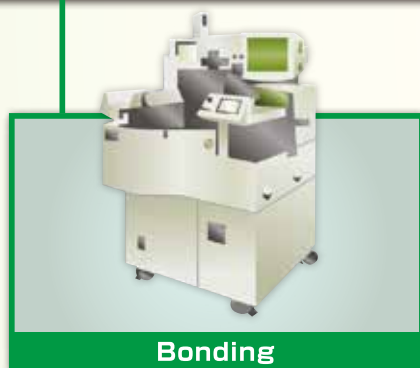
Application **Bonding**
Stick chips from a semiconductor wafer and mount to IC circuit boards.

Challenges solved

- High speed process of alignment information from image controller
- Improvement of cycle time
- Cost down by reducing wiring
- Mixture of servo drives and stepping drives



Press brake



Bonding



Extraction robot



Ejection molding

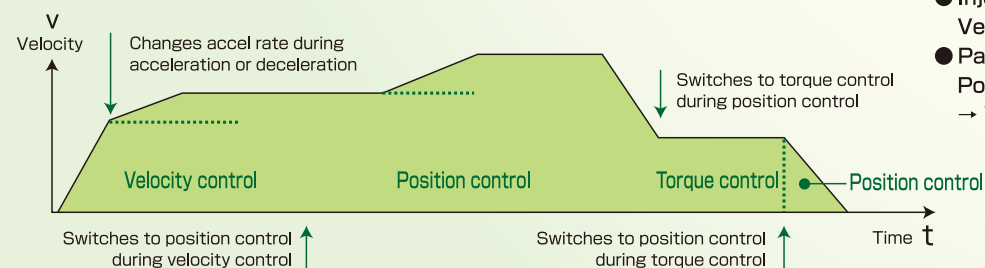


Mounting machine



Etching

[Online Switching Control Mode]



Application Examples

- Injection molding machines :
Velocity control → Torque control
- Packing machines :
Position control or Velocity control
→ Velocity control

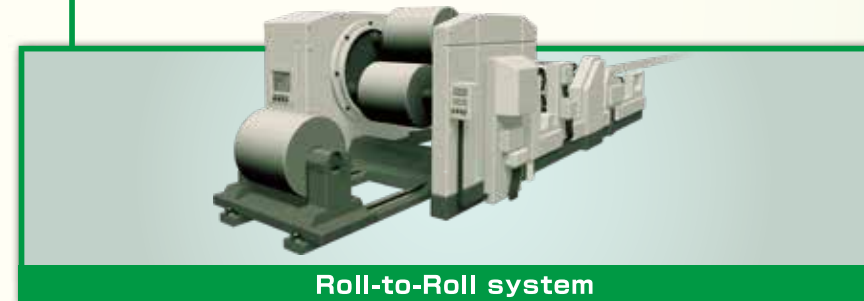
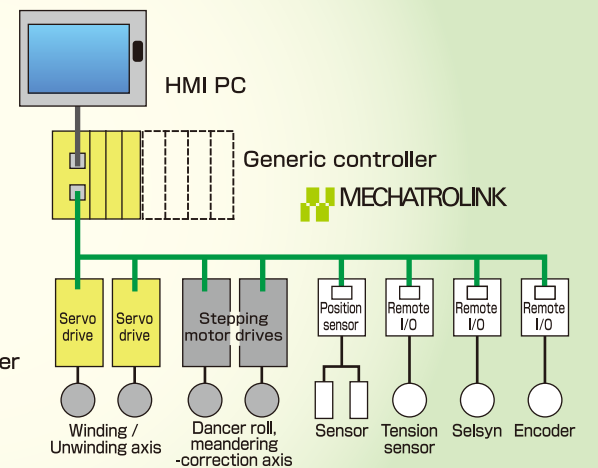
MECHATROLINK SOLUTION 2

Application **Roll-to-Roll system**

A roll-to-roll system applies various treatments to a film as it moves from an unwinding roll to a winding roll. This application is common in food packaging and general converting machinery.

Challenges solved

- Simple wiring for analog devices
- Costs are reduced by eliminating analog modules of the controller
- Networking the feedback information from each device increases speed and accuracy of winding/unwinding



Roll-to-Roll system



Machine tool



Liquid crystal glass processing



Molding



Probing



Washing



Food packaging



Tester

Commitment to International Standards and Safety

Commitment to International Standards

MECHATROLINK is a network technology ranked by international standards and can be used without any concern since the standards are certified globally.

International Standards (SEMI Standard, IEC Standard, GB Standard)

SEMI Standard | MECHATROLINK is a SEMI E54.19 Standard. It is much easier to implement on semiconductor/liquid crystal-related devices. MECHATROLINK was certified for E54.19 (sensor/actuator network) on March 2007.

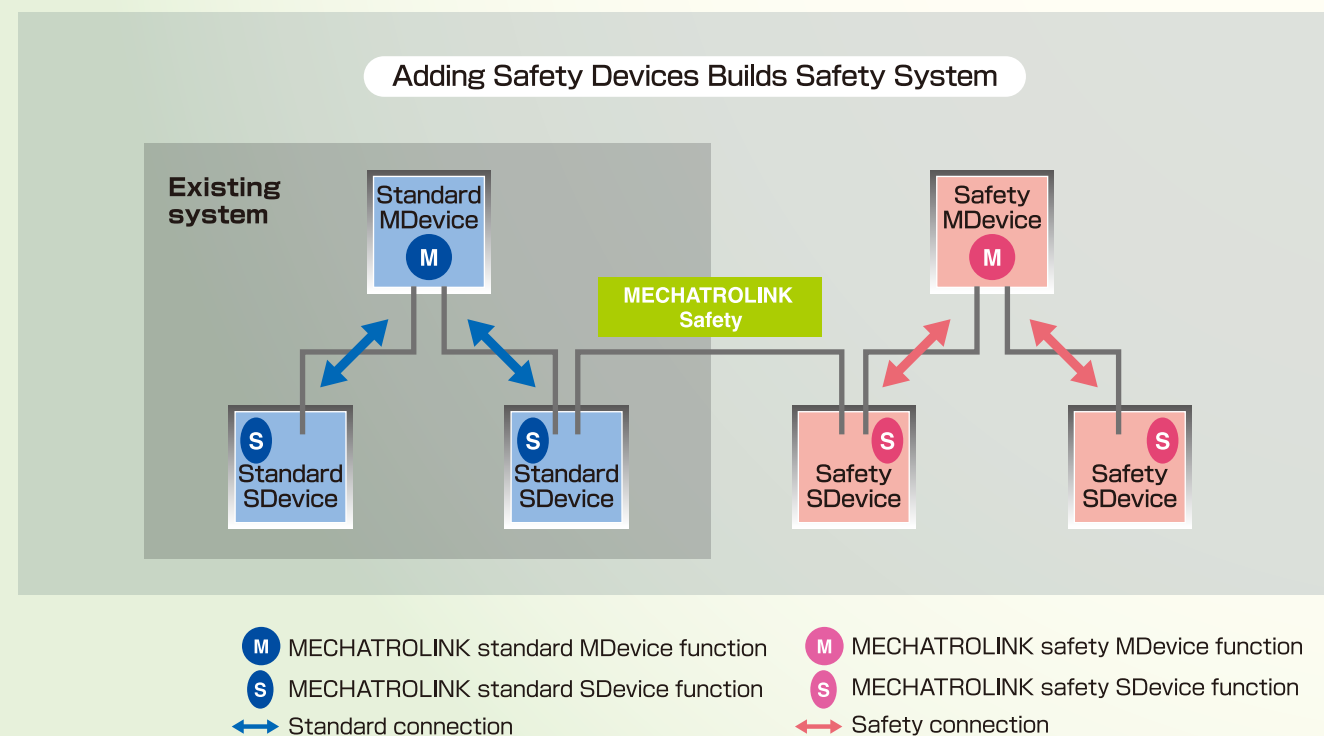
IEC Standard | A campaign is currently underway to have MECHATROLINK certified by IEC International Standards, making MECHATROLINK a world standard for open field networks.
Compatible standards : IEC61158 field network protocol and service
IEC61784 field network profile
Acquired IEC International Standards in August 2014.

GB Standard | MECHATROLINK is listed up to the official Chinese standardization notification No.7 as a Chinese national standard by STANDARDIZATION ADMINISTRATION OF THE PEOPLE'S REPUBLIC OF CHINA(SAC).
Standard No. : GB/T 18473-2016 (Since November 2016)
Standard title : Electrical equipment of industrial machines Serial data link for real-time communication between controls and drives

Commitment to Safety

MECHATROLINK Safety Protocols obtained the concept authorization!

The Safety Technology group in the MECHATROLINK Members Association is assembling the specifications of the MECHATROLINK Safety Protocols for use in an international standard for safety regulation. Under MECHATROLINK Safety, communication between safety MDevices & SDevices, and standard MDevices & SDevices, can occur in the same network. This status can be established simply by adding a Safety MDevice (such as a Safety PLC) and Safety SDevices (including Safety I/Os) to the legacy system. Standard MECHATROLINK cables can be used to connect these safety-supported devices.



MECHATROLINK-III Compliant Products

CONTROLLER

ALGO SYSTEM CO.,LTD



JTEKT CORPORATION



MOVENSYS Inc.



TECHNOHORIZON CO.,LTD.



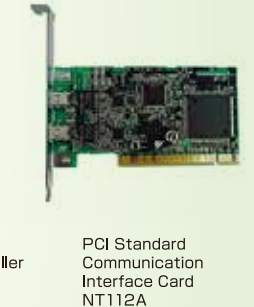
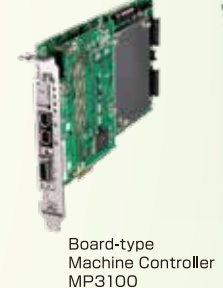
YOKOGAWA ELECTRIC CORPORATION



SYSTEC Corporation



YASKAWA ELECTRIC CORPORATION



YASKAWA CONTROLS CO.,LTD



KEYENCE CORPORATION



NEXCOM International Co., Ltd.



AJINEXTEK CO., LTD.



Sanmei Electronics Co., Ltd.



COMIZOA Co.,LTD.



Prima Electro S.p.A



MECHATROLINK-III Compliant Products

SERVO DRIVE

CKD NIKKI DENSO CO., LTD.



Servo driver VPH-HE Type
Direct Drive Motor 7
DISC Series



AC Servo Driver VCII
Direct Drive Motor 7
DISC Series

YASKAWA ELECTRIC CORPORATION



Single-axis
SERVOPACKs
Σ-XS model



Two-axis
SERVOPACKs
Σ-XW model



Single-axis
SERVOPACKs
Σ-7S model



Two-axis
SERVOPACKs
Σ-7W model



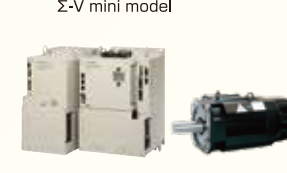
Σ-V SERVOPACKs
with DC Power Input
Σ-V mini model



Three-axis
SERVOPACKs
Σ-XT model



Two-axis
SERVOPACKs
with Built-in
Controllers
Σ-7C model



LARGE-CAPACITY Σ-V Series

KEYENCE CORPORATION



AC Servo System
SV2 Series

SANYO DENKI CO.,LTD.



SANMOTION R
ADVANCED MODEL
RS2E01A2ML5

Sanmei Electronics Co., Ltd.



Communication
Link Unit
Si-LNK-M3

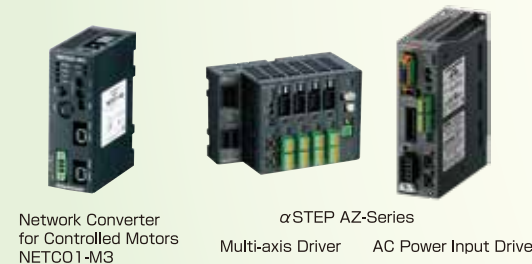
HIWIN MIKROSYSTEM CORP.



E2 Series
Drive D1-N Series
Drive

STEPPING MOTOR DRIVE

ORIENTAL MOTOR Co., Ltd.



Network Converter
for Controlled Motors
NETC01-M3 αSTEP AZ-Series
Multi-axis Driver AC Power Input Driver

YASKAWA ELECTRIC CORPORATION

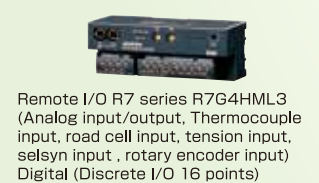


GA500 GA700 U1000 CR700

*All devices need SI-T3

I/O DEVICE

MG CO., LTD.



Remote I/O R7 series R7G4HML3
(Analog input/output, Thermocouple
input, road cell input, tension input,
selsyn input, rotary encoder input)
Digital (Discrete I/O 16 points)



Compact All-in-one Module
Remote I/O R7K4FML3 (Discrete I/O)



Multi-channel, Mixed-signal
Remote I/O R3 Series
(Analog I/O, Contact I/O)

YASKAWA ELECTRIC CORPORATION



64-point I/O Module
JEPMC-MTD2310-E



Analog Input Module MTA2900
Analog Output Module MTA2910
Pulse Input Module MTP2900
Pulse Output Module MTP2910



SLIO I/O Series

ALGO SYSTEM CO.,LTD



IN 16units
OUT 16units

SHINKO TECHNOS CO., LTD.



Remote I/O RG Series

SMART CAMERA

MicroTechnica Co., Ltd.



SimPrun-200

ACTUATOR

IAI CORPORATION



Robo Cylinder, Single Axis
Robot Controller SCON-CB



Robo Cylinder
controller
RCON

REAL TIME OS

Micronet Co.

INtime

Real Time OS INtime

TOKYO ELECTRON DEVICE LIMITED

IntervalZero

RTX2009

SENSOR

Azbil Corporation



High-Accuracy Position Sensor
K1G Series

OTHER

NSD Corporation

MECHATROLINK-III
Slip Ring
3TEφ17-5P-MIII



Phoenix Contact K.K.

Contactless power and
data transmission NEARFI



ENDO KOGYO CO., LTD

MECHATROLINK-III Slip Ring
SRP-MLIII-6



Seal Tech Inc.

MECHATROLINK-III
Slip Ring (produced by GAT)
ROTOCAP Series



DYDEN CORPORATION

Optical Media
Converter
DN2800E Series



HOKUYO AUTOMATIC CO.,LTD

MECHATROLINK-III
Optical data transfer
device
EWF-1E



PERIPHERAL DEVICES

Tyco Electronics JAPAN G.K.

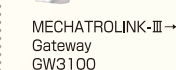


MECHATROLINK-III
Connector kit

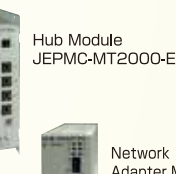
YASKAWA ELECTRIC CORPORATION



Hub Module
JEPMC-MT2000-E



MECHATROLINK-III II
Gateway
GW3100



Network
Adapter Module
JEPMC-MT2020-E

KEYENCE CORPORATION

MECHATROLINK-III
Communication Cable
SV2-L□□(RJ45)
SV2-L□□A(RJ45/IMI)



JMACS Japan Co., Ltd.

MECHATROLINK-III
Communication Cable
PNET/B
PNET26/B
Movable Cable
PNET/C
RX-PNET/C



3M Japan Limited

MECHATROLINK-III
Communication Cable
3RHC4-1100-***M



Taiyo Cabletec Corporation

MECHATROLINK-III
Communication Cable
FAFXG-5E22SLAB/CM(BU)



DYDEN Corporation

MECHATROLINK-III
Communication Cable
RS-MIII(20276) AWG22/4C
Movable Cable
RM-MIII(20276) AWG22/4C



NICHIGO COMMUNICATION ELECTRIC WIRE CO.,LTD.

MECHATROLINK-III
Communication Cable
ML3-C***



MISUMI Corporation

MECHATROLINK-III
Communication Cable
FNMC-MN-*** (IMI-IMI)
FNMC-RJ-B-*** (RJ-45-RJ-45)
Movable Cable
FNMC-RJ-C-*** (RJ-45-RJ-45)



PHOENIX CONTACT K.K.

MECHATROLINK-III
Communication Cable
NBC-M□D-93B-MTL (M12)
NBC-M□D-RJ45-93B-MTL (M12/RJ45)



YASKAWA CONTROLS Co., Ltd.

MECHATROLINK-III
Communication Cable
JEPMC-W6012-***E (IMI-IMI)
JZSP-CM3RMO-***E (RJ45-IMI)
JZSP-CM3RRO-***E (RJ45-RJ45)



KUNSHAN FUJIX ELECTRONIC CO., LTD

MECHATROLINK-III
Communication Cable
MLCC-3-*** (IMI-IMI)
MLCC-3IRJ03-*** (IMI-RJ45)
MLCC-3RJ03-*** (RJ45-RJ45)



Oki Electric Cable Co., Ltd.

OMNET-ML3 HW-22AWG Flex
Harness (IMI connector) :
ML3-HW22(F)-WML-L
Harness (RJ45 connector) :
ML3-HW22(F)-WRJ-L



MECHATROLINK-II Compliant Products

CONTROLLER

ALGO SYSTEM Co., Ltd.

A-Link master series
PCILM01-O

KOYO ELECTRONICS INDUSTRIES CO., LTD.

Programmable Controller
DL-205 Series
MECHATROLINK Module
D2-MLINKProgrammable Controller
DL-05 Series
MECHATROLINK Module
DO-MLINKProgrammable Controller
DL-06 Series
MECHATROLINK Module
DO-MLINK

KEYENCE CORPORATION

Positioning/Motion Unit
KV-ML16V

MYCOM, INC.

PCI-bus
Host Controller Board
MLH20-1030

YOKOGAWA ELECTRIC CORPORATION

Range-free
Multi-controller
FA-M3V

TECHNO Co.,LTD

Motion Controller
for FA-M3
PLMC-MII EX

YASKAWA ELECTRIC CORPORATION

Integrated Machine
Controller MP3200All-in-One
Machine Controller
MP3300PCI Standard
Communication
Interface Card
NT110

Prima Electro S.p.A

CNC controller
10/5 10 Light CNC

ESA/GV s.r.l

Compact CNC
KVARA 6

ISAC S.r.l

MACHINE CONTROLLER
CNC 2001M

LS Industrial Systems Co.

Programmable
Controller (PLC)
XGT Series

AJINEXTEK CO., LTD.

PCI Master Controller
PCI-R1604-MLII

Shenyang Golding NC Tech Co., Ltd



CNC System GJ-210

Guangzhou LokShun CNC Equipment Ltd.,

Controller
SGDS9-6CNCH2

LNC Technology Co., Ltd.



LNC-M600id System

REAL TIME OS

Micronet Co.

Intime

Real Time OS Intime

TOKYO ELECTRON DEVICE LIMITED

IntervalZero

RTX2009

STEPPING MOTOR DRIVE

ORIENTAL MOTOR Co., Ltd

Network Converter
for Controlled
Motors
NETC01-M2

MYCOM, INC.

MLN50 Series
5-phase Driver
MLN20 Series
2-phase Driver

SERVO DRIVE

Harmonic Drive Systems, Inc.

AC servo driver
HA-680ML seriesAC servo driver
HA-800B series

KEYENCE CORPORATION

AC Servo System
SV Series

YASKAWA ELECTRIC CORPORATION



Σ-7 series



LARGE-CAPACITY Σ-V series

Σ-V SERVOPACKs
with DC Power Input
Σ-V mini model

INVERTER

YASKAWA ELECTRIC CORPORATION



GA500



GA700



U1000



CR700

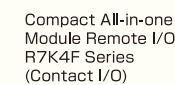


Varispeed G7

*All devices need SI-T3

I/O DEVICE

MG CO., LTD.

Compact All-in-one
Module Remote I/O
R7 Series
(Analog I/O, Contact I/O)Compact All-in-one
Module Remote I/O
R7K4F Series
(Contact I/O)

YASKAWA ELECTRIC CORPORATION

Digital I/O
Analog I/O
Counter input
Pulse output
Relay output

SENSOR

RKC INSTRUMENT INC.

Module Type
Digital
Temperature
Controller
SRZ Series

YASKAWA ELECTRIC CORPORATION

Network Machine Vision System
MYVIS YV260

ACTUATOR

IAI CORPORATION

Robo Cylinder Controller

ACON Series
PCON Series

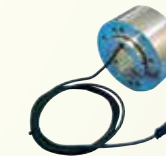
SCON Series

OTHER

ENDO KOGYO CO., LTD

Slip Ring
SPR-MLII-3

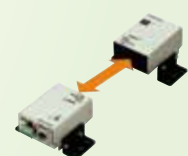
KYOEI ELECTRIC CO., LTD.

Slip Ring System
SRC/20-MLII

NSD Corporation

MECHATROLINK-II
compliant
Slip Ring
3TEφ17-7P

TOYO ELECTRIC CORPORATION

MECHATROLINK-II
compliant
Space Optical
Transfer Unit
(Under development)

PERIPHERAL DEVICES

Tyco Electronics JAPAN G.K.

MECHATROLINK-II Connector kit
Connector kit Blister pack style
(1pcs/pack) 1827525-1
Connector kit Bulk pack style
(500pcs/pack) 2013706-1
Dies kit shell 1891771-1

DYDEN Corporation

MECHATROLINK-II Communication Cable

HRZFBV-SB
AWG25/2C

YASKAWA CONTROLS Co., Ltd.

MECHATROLINK-II Communication Cable JEPMC-W6002-□-E



KUNSHAN FUJIX ELECTRONIC CO., LTD

MECHATROLINK-II Communication Cable MLCC-2-□□□



YASKAWA ELECTRIC CORPORATION

MECHATROLINK-II Repeater JEPMC-REP2000





MECHATROLINK MEMBERS ASSOCIATION

URL: <https://www.mechatrolink.org/>

The MECHATROLINK Members Association (MMA) is a group of MECHATROLINK product developers and users who promote the use of MECHATROLINK throughout the world. MMA has established eight branches in the major markets overseas to support the construction and promotion of a larger MECHATROLINK family.

MMA Germany ●

MMA China ●★
(Shenyang Office)

MMA China ●
(Shanghai Office)

MMA India ●

MMA Korea ●

MMA Japan ●★

MMA Taiwan ●

MMA ASEAN ●

MMA US ●

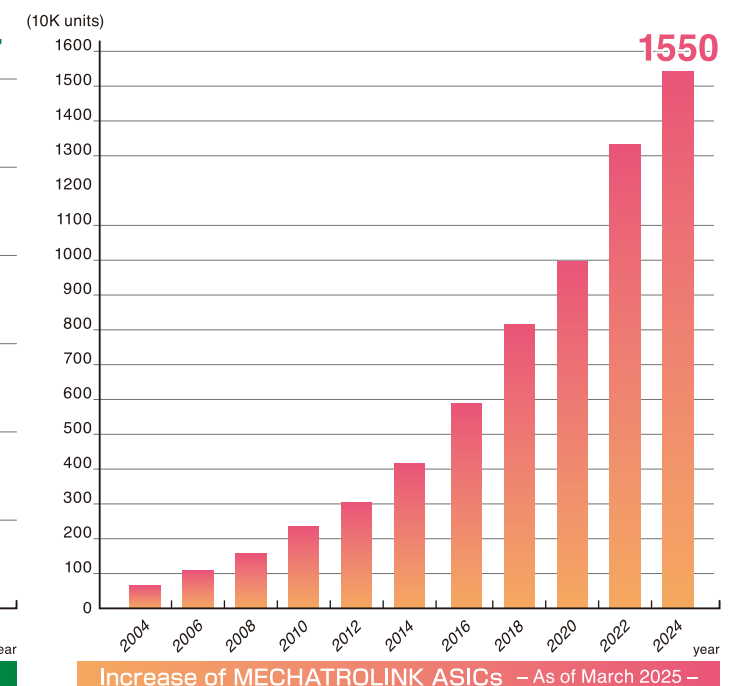
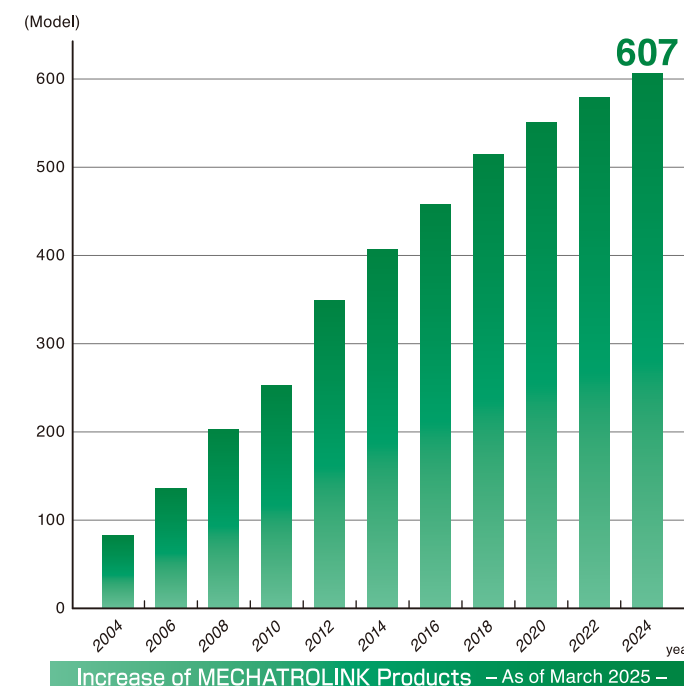
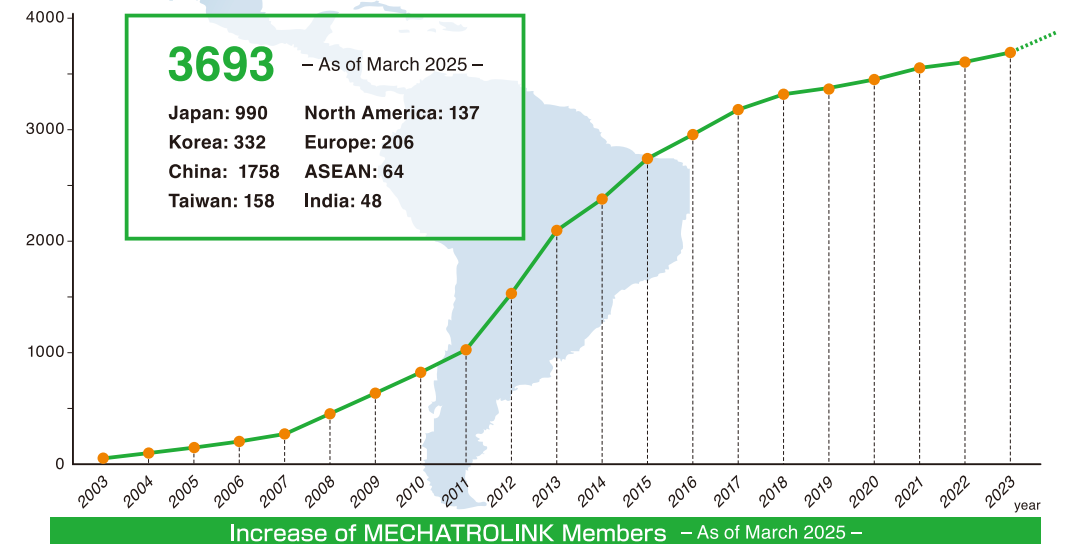
Global Support

The MECHATROLINK Members Association has eight overseas branches to provide technical support and tailor to local needs. Each branch promotes MECHATROLINK by attending exhibitions, presenting seminars, distributing literature and news content. Customers can adopt MECHATROLINK with confidence, assured by the ongoing efforts of the Members Association to promote this valuable standard worldwide.

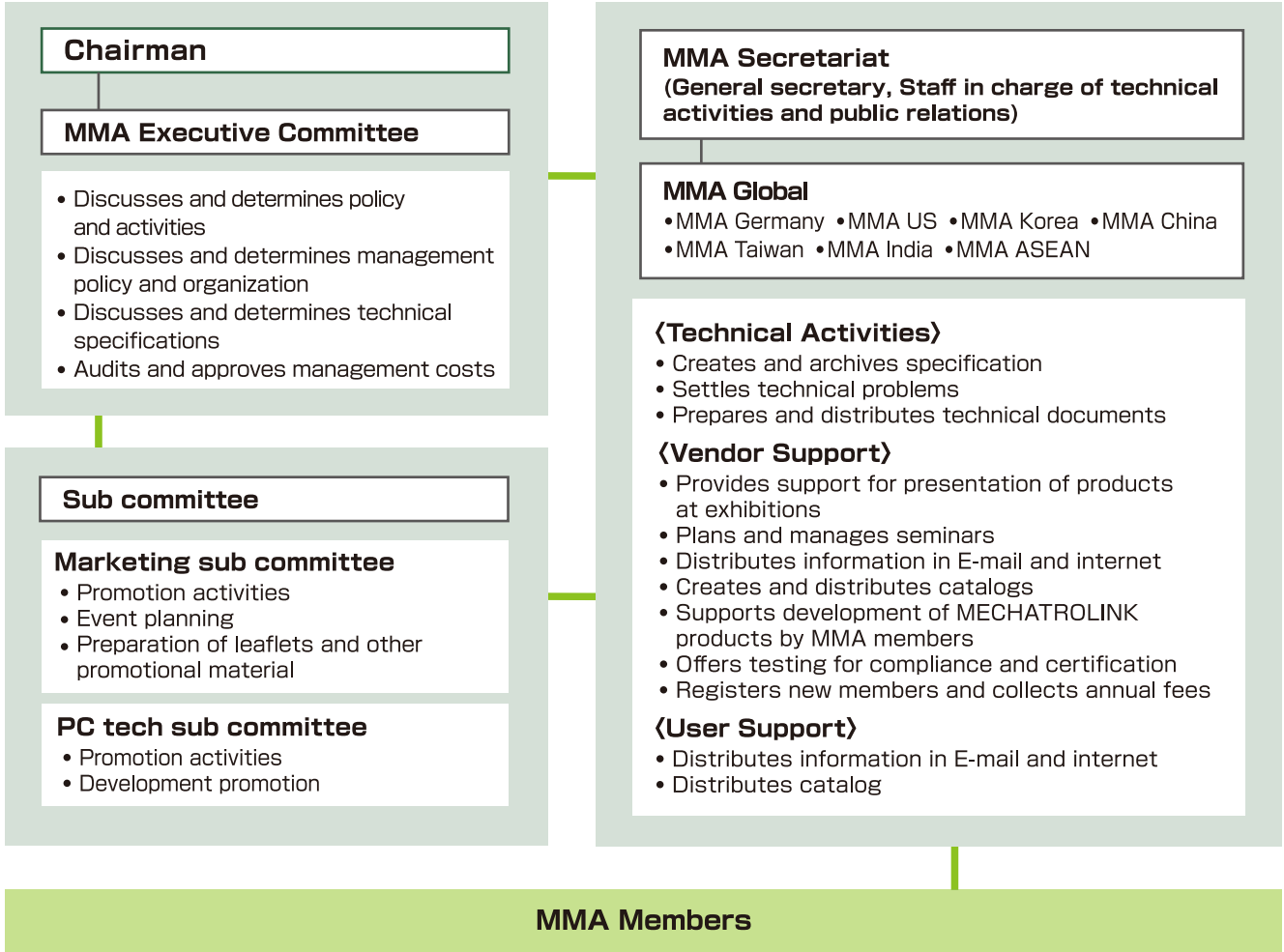
Name : MECHATROLINK MEMBERS ASSOCIATION (MMA)

● HEAD OFFICE ● BRANCH OFFICE ★ CERTIFICATION TEST SITE

MMA Japan	● 480 Kamifujisawa, Iruma, Saitama, 358-0013 Japan ★ Tel: +81-4-2962-7920 / FAX: +81-4-2962-6343 / e-mail: mma@mechatrolink.org
MMA Germany	● Philipp-Reis-Str. 6 65795 Hattersheim am Main Germany Tel: +49-6196-569420 / e-mail: mma@mechatrolink.de
MMA US	● 2121 Norman Drive South; Waukegan, IL 60085; U.S.A. Tel: +1-847-887-7231 / e-mail: mma-us@mechatrolink.org
MMA Korea	● 6F, 112, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14118 Korea Tel: +82-31-379-6228 / e-mail: mma-kr@mechatrolink.org
MMA China	● < Shanghai Office > 22/F One Corporate Avenue No.222 Hubin Road, Huangpu District Shanghai, 200021 CHINA Tel: +86-21-53852070 / e-mail: mma-sh@mechatrolink.org ● < Shenyang Office > No.16, East Nanping Road, Hunnan High-tech, Industrial Development Zone, Shenyang, 110171 CHINA ★ Tel: +86-24-24696008 / e-mail: mma-cn@mechatrolink.org
MMA Taiwan	● No. 33, Keyuan Rd., Xitun District, Taichung City, 40763 Taiwan Tel: +886-4-2461-0553 / e-mail: mma-tw@mechatrolink.org
MMA India	● 17/A, 2nd Main, Electronic City, Phase-1, Hosur Road, Bengaluru - 560 100, INDIA Tel: +91-80-4244-1920 / e-mail: mma-in@mechatrolink.org
MMA ASEAN	● 151 Lorong Chuan, #04-02A, New Tech Park, SINGAPORE 556741 Tel: +65-6488-8365 / e-mail: mma-sg@mechatrolink.org

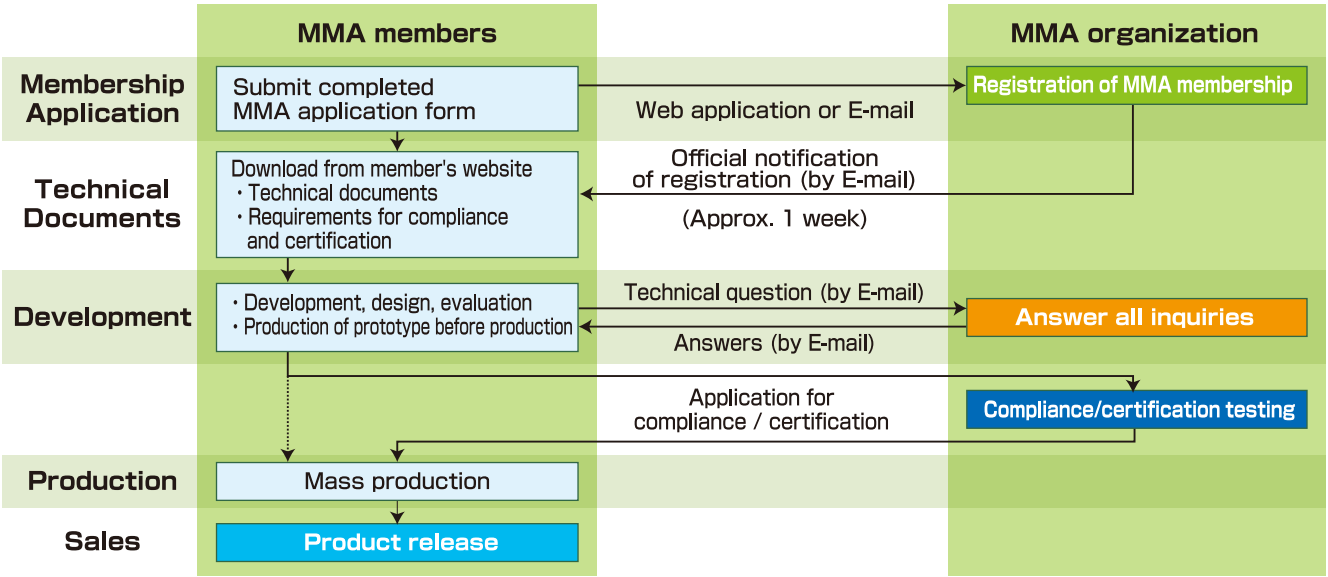


Organization



From the MMA Membership Application to Product Release

The following flowchart illustrates how to join the MECHATROLINK Members Association (MMA) and how MMA works with members to develop and release MECHATROLINK-compliant products.



MECHATROLINK Certification Test

The certification test is your guarantee that each MECHATROLINK product will be compliant with MECHATROLINK specifications. The certification test is designed to confirm compliance on every certified product regardless of manufacturer. Each certified product is permitted to use the MECHATROLINK logo as an indication of its compliance.

Certification Test Limitations

A certification test is performed using limited MECHATROLINK specifications, which are defined by the specification of the product being tested. The original characteristics of the product such as the functions, performances, reliability, etc. are not subject to examination in the certification test. Each manufacturer must guarantee these characteristics themselves. In addition, the product conformance to the MECHATROLINK specifications is only applicable to the version of the hardware and software of the product when the test is performed. A general rule is that when the product version changes, another certification test is necessary.

Certification Test Details

The certification test includes the following items.

- Verification of MECHATROLINK communications circuit and components
- Noise resistance
- MECHATROLINK communication compliance
- Interconnectability

MECHATROLINK Logo for Certification

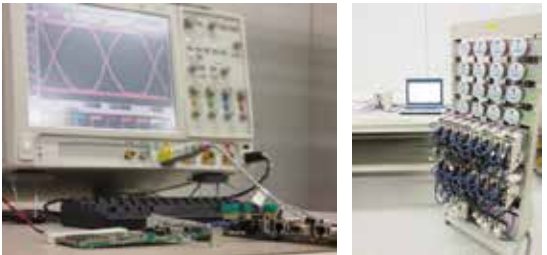
The MECHATROLINK logo for certification indicates that a product meets MECHATROLINK specifications. Any product that displays this logo can be safely used. MECHATROLINK products that have passed our certification test will be allowed to display this logo.

Certification Test Organization

Certification test sites in the following two places:

- MMA Japan
- MMA China Shenyang

Applications for the certification test must be sent to the MMA secretariat.



The activities of the MECHATROLINK Members Association

The MECHATROLINK Members Association conducts various PR activities.



MECHATROLINK Membership Privileges

The benefits of MECHATROLINK membership are:

- You can obtain MECHATROLINK specifications from the Members Association's web site.
- You can obtain technical support for all the processes including product development.
- You can participate in PR activities for MECHATROLINK-compliant products.
- You can participate in exhibitions in collaboration with MMA.
- You can take certification exams of MECHATROLINK-Supported products.
- You will be able to purchase the MECHATROLINK connector kit and make your own cable.
- You can participate in MMA general meetings and development seminars.
- You will be sent the E-mail magazine with the latest MECHATROLINK information.

Membership Categories and Privileges

Type of Members		Board Members	Executive Members	Regular Members	User Members	Registered Members
Annual fee (April to March)		500,000 JPN	200,000 JPN	100,000 JPN	20,000 JPN	Free
Annual fee (October to March)		1/2 of the above annual fee			20,000 JPN	Free
Participation in committee and general meetings		Authorized to participate in the executive committee, subcommittee, and general meeting	Authorized to participate in the subcommittee and general meeting			Not authorized
Services	Downloading technical documents from the website	Free				
	Direct mails from the Association	Free				
	Seminars	Free				
	Product presentation at seminar	Authorized			Not authorized	
	Technical inquiries (by e-mail or telephone)	Free				Not authorized
	Development support for vendors	Free (charged for some cases)				Not authorized
	Introduction of products on the Association's website	Free			Not authorized	
	Advertisement on the Association's website	Free	Charged		Not authorized	
	Compliance certification test	50,000 JPN	100,000 JPN	200,000 JPN		Not authorized
Rights of Members	Development of products	Authorized				Not authorized
	Sale of products	Authorized			Not authorized	
	Participation in formulation of specifications	Authorized	Not authorized (Possible to receive the information on experimental specifications.)		Not authorized (Possible to read the formulated specifications.)	

Member List (Public acceptance company)

Board Members		
KEYENCE CORPORATION 	MG CO., LTD. MG CO., LTD. www.mgco.jp	NEC Corporation 
ORIENTAL MOTOR CO., LTD 	Schneider Electric Japan Holdings Ltd. 	Texas Instruments Incorporated 
YASKAWA ELECTRIC CORPORATION 	YOKOGAWA ELECTRIC CORPORATION 	

Executive Members	
ALGOSYSTEM CO.,LTD EIKO SOKKI CO.,LTD. HSD SpA Peak Force Systems Co., Ltd. PHOENIX CONTACT Development & manufacturing Inc. Shinko Technos Co., LTD.	SYSTEC Co Tyco Electronics Japan G.K. Xi'an Jiaotong University YASKAWA AMERICA, INC. YASKAWA CONTROLS CO.,LTD YASKAWA MECHATREC SUEMATSU KYUKI CORP.

Regular Members & User Members		
3M Japan Limited ADLINK Technology Inc. AJINEXTEK CO., LTD ARKTAKE, INC. Azbil Corporation Beijing Aerospace Numerical Control System Co,Ltd BEIJING KND CNC TECHNIQUE CO., LTD. Beijing SCBD Tatfook Precision Machinery Co., Ltd. Biesse S.p.A. CHUNG WOO ELECTRONICS CHUO ELECTRONICS CO.,LTD. CKD Corporation CKD NIKKI DENSO CO., LTD. COMIZOA CONTEC CO., LTD. Daitron Co., Ltd. DMP Electronics Inc. DYDEN CORPORATION ENDO KOGYO CO., LTD FASTECH GUANGZHOU LOKSHUN CNC EQUIPMENT LTD Hangzhou Kaierda Robot Technology Co., Ltd. HANMI SEMICONDUCTOR.CO.,LTD. Hilscher Japan KK HIWIN MIKROSYSTEM CORP. HOKUYO AUTOMATIC CO,LTD Hurco Automation Ltd. IAI Corporation Inovance Technology IntervalZero, Inc.	JiaXing HuaLing Mechatronics Equipment Co., Ltd. JMACS Japan Co.,Ltd. JOINT STARS TECHNOLOGY CO.,LTD JTEKT Corporation KUNSHAN FUJIX ELECTRONIC CO., LTD KYOEI ELECTRIC CO., LTD. Lite-On Technology LNC Technology Co., Ltd. Matsuura Denkosha Co.,Ltd. Micronet Co. MICROTECH LABORATORY INC. Microtechnica Co.,Ltd. MinebeaMitsumi, Inc MISUMI Corporation MOVENSYS Inc. Moxa Japan LLC MPI CORPORATION NAONWORKS CO., LTD. National Instruments NEXCOM JAPAN NICHIGOH COMMUNICATION ELECTRIC WIRE CO.,LTD. NISSEI ELECTRIC CO.,LTD. NITTOKU CO.,LTD. NovUM doo Kikinda Oki Electric Cable Co.,Ltd OMRON Corporation PMC Stone Inc Prima Electro S.p.A. QS Technology Co.,LTD RICOH PFU COMPUTING Co., Ltd.	Samchully Machinery Co., Ltd. SAMWON ACT Sanmei Electronics Co.,Ltd. SANYO DENKI CO.,LTD. Servo Dynamics CO., LTD Shanghai Future Technology Co., Ltd. SHANGHAI inrevium SOLUTIONS LIMITED Shenyang Golding NC TECH.Co.,Ltd. SHENZHEN DWL AUTOMATION CO., LTD. Shenzhen Hpmont Technology Co., Ltd. Shenzhen Wellauto Technology Co., Ltd. SMARTMOTION Co., Ltd. SYNTEC TECHNOLOGY CO., LTD SYSCO Machinery Corpotation Taian Automation Co., LTD. Taiyo Cabletec Corporation TECHNO TECHNO HORIZON CO., LTD. THE SAILOR PEN CO.,LTD. ROBOTICS DIVISION Thomas Engineering Company TOKYO ELECTRON DEVICE LTD. Xiamen Deway Smartlink Co,Ltd YASKAWA Europe GmbH YE DIGITAL Corporation ZEST(NANJING)INDUSTRIAL AUTOMATION CO.,LTD 南京埃闰科技有限公司 汉博来自控科技（上海）有限公司 河南中和兴科精密配件制造有限公司

Member List (Public acceptance company)

Registered Members

A&E Technology
A-KYUNG MOTION INC.
AA EDM Corporation
Aarohi Embedded Systems
AB&T s.r.l
ABILITY Switzerland AG
ABISYS CORPORATION
Academia Sinica
ACE PILLAR (Tianjin) Co., Ltd.
ACRON PRECISION IND. CO., LTD
ACS Motion Control
Act Technologies Corp. (Ningbo, China)
AD-MYCOM CORPORATION
ADFWeb.com SRL
ADLINK Japan
Adtech Corp.
Advanced Telecommunications
Research Institute International (ATR)
Advantage Industrial Automation
ADVANTECH Co., Ltd.
Advent Design Corp
AF Robotics
Agile Planet, Inc.
Ahavalink Inc
Aida Engineering,LTD
AILE Ltd,
Airfolc, Inc.
AI Cube Inc.
AL ROBOT
All Control Enterprises
Alpha Motion co., ltd
ALTERA JAPAN, LTD.
ALVIX Corporation
AMADA CO.,LTD.
Ambisig
Analog Devices K.K.
AnalogTech K.K.
Anna University
Anotherware Co.,Ltd.
Any Work Corporation
ANYWIRE CORPORATION
AOYAMA SPECIAL STEEL CO.,LTD.
Applied Machine and Motion Control, Inc.
aptpod,Inc.
AR Electro Power Pvt. Ltd.
Aranha Ltd
Arrow7 Co. Ltd.
ARSELON
Arselon SE
ASAHI ENGINEERING CO.,LTD
Asprova Corporation
ATS Technologies
AU optronics Corp.
Automated Solutions
Automation Engineers
Automatoin Department of Tsinghua University
Autonics corporation
AVAIL CORPORATION
AVAL DATA CORPORATION
AVEVA Software K.K.
AvtoVAZ
AVW Controls Ltd
AXIS GLOBAL AUTOMATION
AXsolutions Co.,Ltd
Azbil (Thailand) Co.,Ltd.
Beijing ADRC Technology Co., Ltd.
Beijing Automation Technical Research Institute
Beijing BBFCNC Co.,Ltd
Beijing DFJZH Mechanical & Electrical
technology Co.,LTD
Beijing Jiaotong University
Beijing SR technology Ltd.
beijing(shanghai)Dacheng Law Offices
Bel Fuse Ltd.
BEST F.A
Beyond the river Inc.
BIONIME
Birkenstock Technical Products
BlueBay Automation
Bright Lux Automation
Bui Van Ngo
BuroMach Ltd.
C&TECH INDUSTRIAL CO.LTD
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Chengdu West Taili Crane Co.,Ltd.
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Delta Sigma Automation
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EASTERN NETWORKS
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EMMEGI S.p.A.
ENA Industry
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Himawari corporation
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HOPEWIN INDUSTRIAL CO., LTD.
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HSIN HSIE SHIANG TRADING CO.,LTD.
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HUST Automation inc.
HYOGWANG
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S.p.A
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ICOP I.T.G. Inc.
ICP DAS Co.,LTD.
ICW-Ingenieurburo Christian Wolz
IdeaLabs.
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IM(Intelligents Machines)
Imminent Integrators
IMS-Mechatronics Laboratory, University
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IMV Corporation
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Research Laboratories. Intelligent
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