

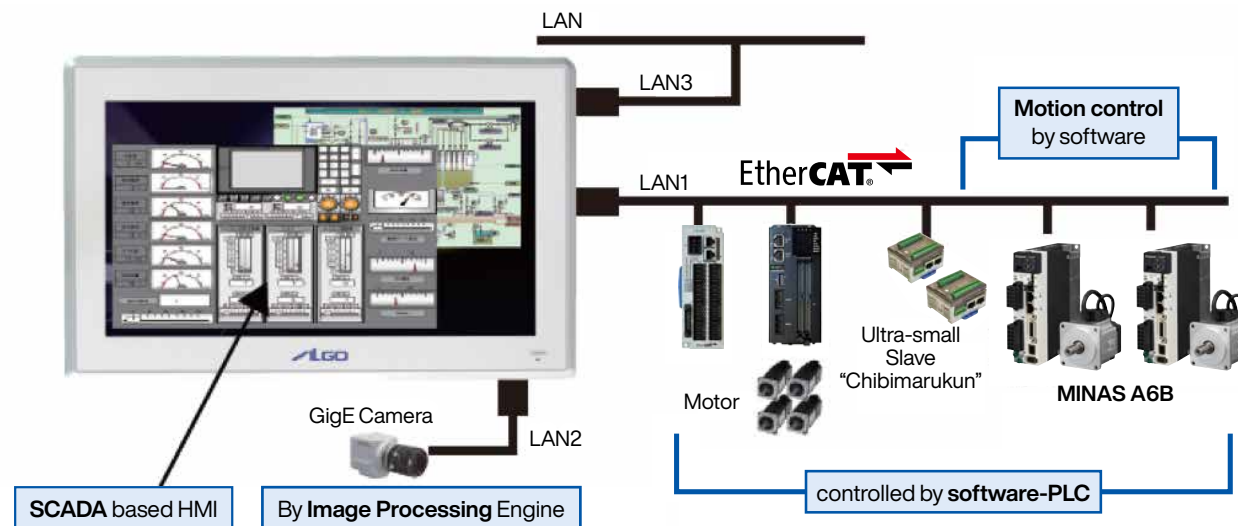
EtherCAT master

"All-in-one Controller", based on the Industrial PC equipped with EtherCAT master stack

Features

All-in-one controller can execute SCADA, synchronous motion control and image processing just by itself.

- International standard (IEC 61131-3) compliant software PLC
- PLCopen compliant positioning/synchronous motion control software
- OpenCV, OpenVX compliant image processing engine (option)
- SCADA-based HMI software



Specification

- Intel® high-performance processor, Atom E3845 Quad Core 1.91GHz
- Real time OS (INtime). High-speed 28000 steps/50 μs processing.
- Windows10 IoT Enterprise allows effective utilization of various software
- Top-class ultra-thin compact design and lower power consumption allow for installing in small space for new, expanded use. Free switch off. Multi-touch panel. Multilingual
- Fanless, diskless, completely spindleless. 2 storage, mini m-SATA, slots. support.

UPS equipped standardly

GPIO, 6 IN / 4 OUT, equipped standardly

LTE equipped, can access directly to Cloud

Suitable for dedicated controller

Application Sample



ALGOSYSTEM's All-in-one Controller had replaced PLC and has been adopted as de facto standard controller of the minimafab for processing a half-inch wafer to make semiconductors in high-mix low-volume production. Minimafab is the national project carried out by the National Institute of Advanced Industrial Science and Technology (AIST). The key to adoption of the All-in-one Controller is its high performance and space saving, it can support multi-vendors' products and encrypt, it can be programmed by either C or software PLC compliant to IEC61131-3 Standard which provides 5 languages: LD, FBD, IL, ST and SFC.



EtherCAT slaves

Features

Digital input/output (NPN/PNP)

- 16-point input unit
- 16-point output unit
- 32-point input unit
- 32-point output unit
- 16-point input/16-point output unit

<"Chibimarukun" series>

e-CON connector

- 8-point input unit
- 8-point output unit
- 4-point input/4-point output unit

MIL connector terminal block

- 16-point input unit
- 16-point output unit
- 8-point input/8-point output unit

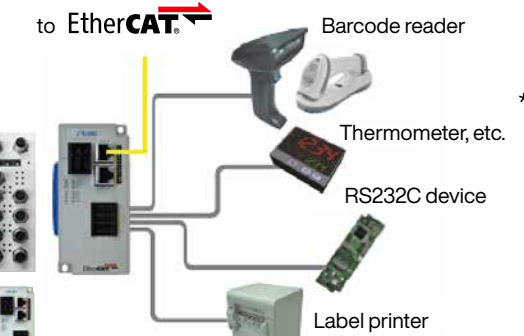
Relay output (terminal block)

- 4-point relay output unit

Analog input/output

- 4ch analog input unit
- 4ch analog output unit

IO-Link, Modbus, 4ch SIO Gateway



* IO-Link, Modbus, Serially controlled devices such as RS-232C and RS-485 devices are converted to EtherCAT. EtherCAT can be installed without putting old assets to waste.

Motion controller

- Up to 4-axis control
- Execute from high-order PC, etc.
- via restricted EtherCAT connection

Encoder input

- Line receiver input
- Open collector input

Contract-based Development



Interface board example

Sales area

- Japan
- United States of America
- Korea
- China

Language

- Japanese
- English

For more information

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