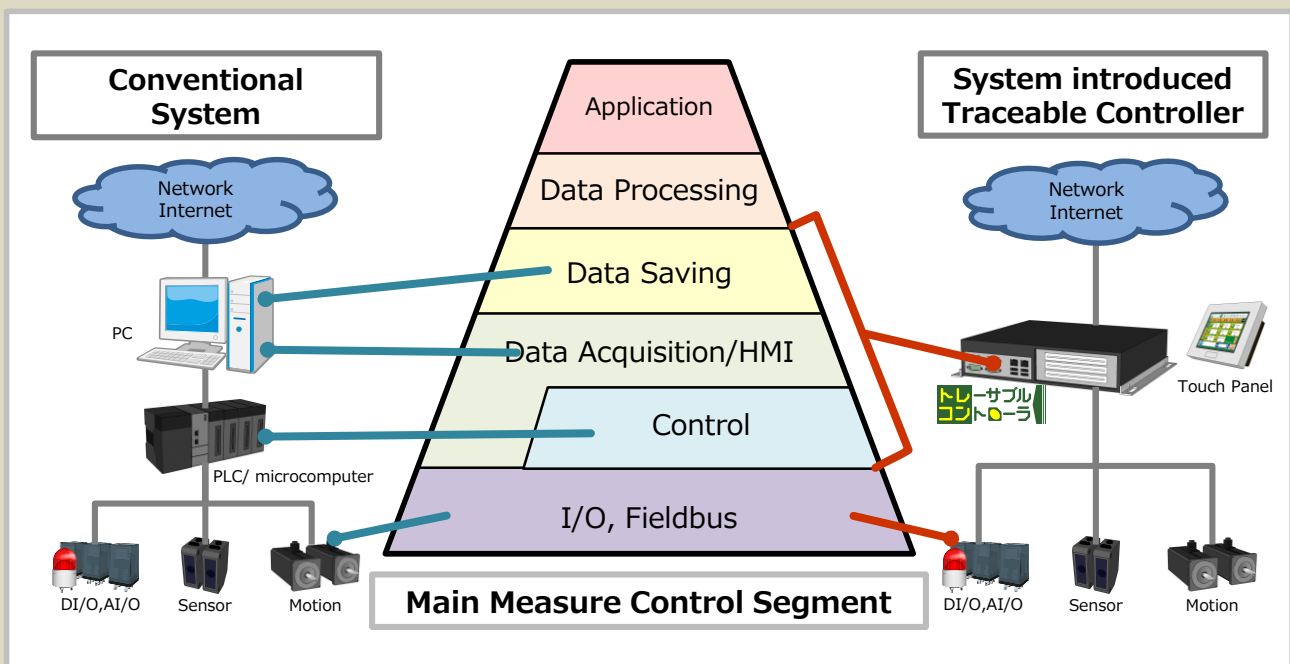


# IoT-compliant Sophisticated Controller Solution with high-efficiency / real time measurement control function and data processing in 1 PC



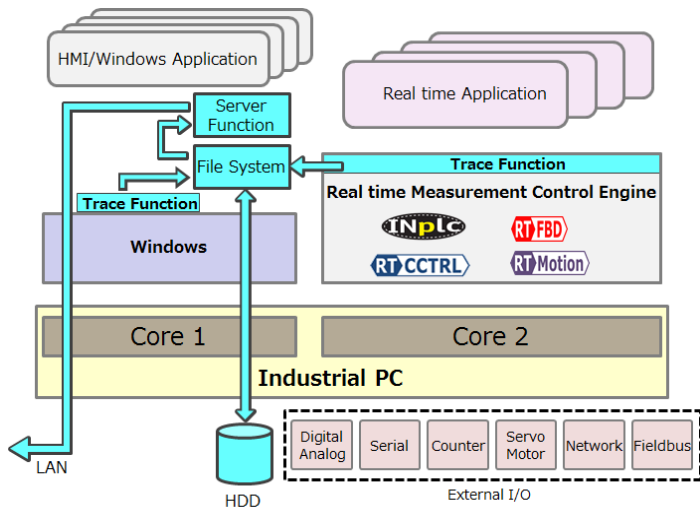
- Run on standard PC platforms
- 100μs control period
- Select from C language to ladder language about development language / functions on demand
- Store control data / quality data / production control data at high speed and in high volume
- Network / external I/O are available for industry standard and global standard



# What's Traceable Controller?

RT-Traceable Controller is a top-shelf controller with sophisticated real time control functions and data storage functions for production control / quality / maintenance etc.

You can achieve both 100μs precision control and data processing in 1 PC.



## Mechanism of Traceable Controller

Traceable Controller consists of "Real time measurement control engine" which achieves high-precision control and "Traceable Function" which acquires data from real time applications for control.

In Real time measurement control engine, you can wide use from development languages for PC such as MS Visual Studio C / C++ / C# to development techniques such as ladder(LD) / function block(FBD) etc.

## Application for Traceable Controller

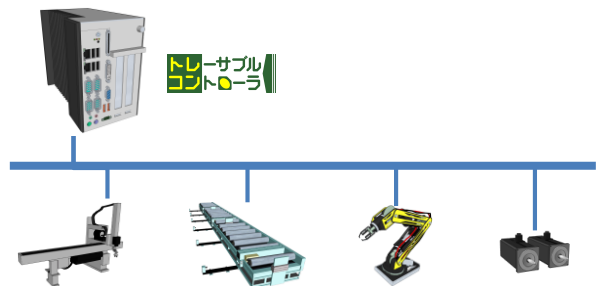
### Building remote I/O system



Traceable Controller can achieve I/O control of remote digital / analog signal using PC LAN ports as it is.

It is usable for replacements of users' existing systems since it has corresponded to various fieldbus such as EtherCAT®, MECHATROLINK, CC-Link etc.

### High-speed multi axis synchro control



You can use latest multicore CPU functions / performance as it is for control process since Traceable Controller uses PC platform.

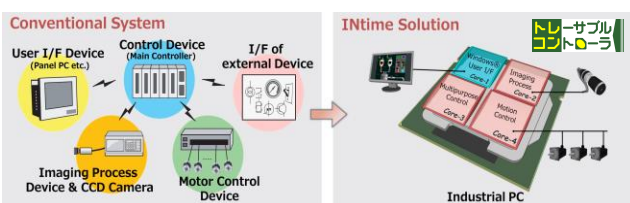
Therefore it demonstrates greater performance than conventional PLC / microcomputers.

1 Traceable Controller can achieve various controls e.g. multi-axial robot control, projection, molding, laser processing etc.

In addition, regarding motion controllers to achieve motion control,





since we've prepared as a real time measurement control engine "RT-Motion", you can achieve motion control easily without creating your motion control programs from scratch.

### Integrate multiple devices into 1 PC



Using Traceable Controller enables you to integrate your system with multiple hardware into 1 PC with multi cores.

# Real time control engine for Traceable Controller

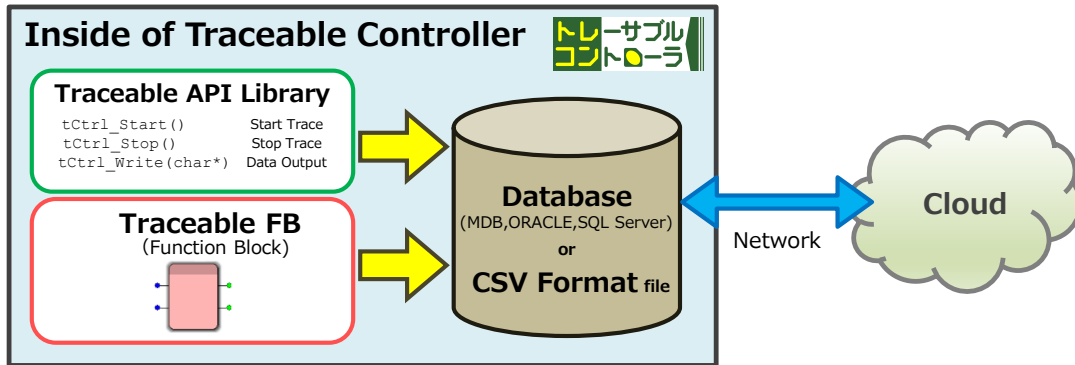
Real time Measurement Control Engine	Development Language <Development Tool>	Max Tasks/Min Control Period	Features
	PLC language based on IEC61131-3 <INplc-SDK>	16 tasks/100µs	Real time software PLC engine using the PLC engine "ProConOS" (by PHOENIX CONTACT Software Germany) which has many track records in PLC fields all over the world. We have prepared some function block to convert smoothly for customers using conventional local main PLC products.
	MS Visual Studio C# <INplc-SDK>	16 tasks/100µs	Engine which can achieve real time control with 100µs period using MS Visual Studio C#.
	Function Block <INplc-SDK>	16 tasks/100µs	Engine which can crate real time program combining function blocks in programming.
	Parameter Setting	16 axis/250µs	Engine for motion control like Positioning. You can achieve multi-axial Positioning control by teaching function / parameter setting. This engine has corresponded to field bus such as "EtherCAT®" , "MECHATROLINK-III".

# I/O device interface for Traceable Controller

Classification	Interface Name	Features
Expansion Unit	DIO, AIO, Pulse, Counter board	Available for expansion boards (PCI/PCI Express) for PC at home and abroad. Provide I/O drivers for Japanese main makers as standard. We can also undertake entrusted development.
	TCP/IP Communication	Implemented the driver for TCP/IP communication as standard using standard LAN ports of PC platform.
	Serial Communication	Implemented the driver for real time control as standard using standard serial ports of PC platform. In addition, there are driver options for expansion serial communication boards.
	USB Communication	Available for USB communication as standard using standard USB ports of PC platform.
Fieldbus	EtherCAT®	Traceable Controller can use high-speed field bus "EtherCAT®". You can user EtherCAT® using PC internal LAN ports without adding any hardware. You can use widely from Analog I/O slaves to high-speed multi-axis motion slaves.
	MECHATROLINK	You can use it by mounting communication boards for PC provided by YASKAWA ELECTRIC CORPORATION etc,
	CC-Link, CC-Link IE, SSC-NET	You can use it by mounting communication boards for PC provided by Mitsubishi Electric Corporation.
	PROFINET, EtherNET/IP, DeviceNet etc.	Third parties provide available communication boards for Traceable Controller.

# Feature Overview for Traceable Controller

Traceable functions are provided as the format according to development language specification (API or FB) of real time measurement control engine. You can change functions valid / invalid, setting information by parameters.



## Operating Environment for Traceable Controller

<b>Windows</b>	Windows 7	Both 32bit and 64bit are available
	Windows 8	
	Windows 10	
<b>Hardware</b>	PC/AT Compatible PC	
	Intel / Intel Compatible CPU	Core 2 Duo and above
	Standard Traceable Storage : 2TB	In case of storing 1000 items of 2 byte data, about 3 years data can be stored.

## Product Lineup for Traceable Controller

<b>Product body</b>	Traceable Controller(INplc)	Traceable Controller with INplc engine
	Traceable Controller(RT-C)	Traceable Controller with RT-C language Controller (RT-CCRTL) engine
	Traceable Controller(FBD)	Traceable Controller with RT-FBD engine
	Traceable Controller(Motion)	Traceable Controller with RT-Motion engine
<b>Additional functions</b>	EtherCAT function	Add EtherCAT communication function
	DB access function	Add function to access from real time applications of Traceable Controller to DB software

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