INCON-Server

伺服型開放式 CNC 控制器
Server Type Open CNC Controller

工業 4.0 應用 Industrial 4.0 Application
客製化應用 Customized Application
系統加值應用 Value-added Application
優質的 CNC 控制平台

伺服型開放式 CNC 控制器為優質的 CNC 控制器平台，應用者可以在平臺上建構各種系統，如磨刀機系統、含 AOI 薄板加工機、多站連線加工機、智慧機械。伺服型開放式 CNC 控制器於系統中擔任何伺服器平台，透過乙太網路和應用端 (Client) 連結，應用端 (Client) 和平臺之間使用通訊協定及嚴謹的 TCP/IP 完美達成 ASK、CMD、SET、ECHO 四大功能。

Excellent CNC Control Platform

Server type open CNC controller is an excellent CNC controller platform for clients to build various kinds of systems such as tool grinding machines, sheet metal cutting centers with AOI, multi-station machining centers, and intelligent machines. Server type open CNC controller plays the role as a server platform in the system and links to Client through Ethernet. Client and platform construct ASK, CMD, SET, and ECHO functions perfectly by using communication protocol and strict TCP/IP.

完整的 CNC 控制器功能

伺服型開放式控制器是整套完整的 CNC 銑床類或車床類控制器，INCON 家族內的 CNC 控制器具備智研控制器相同的優異性能，所有控制器採用 RTOS，NC 的運動精確且高速，PLC 採用 C 語言編寫，準確控制機械上輔助裝置。

Complete CNC Function

Server type open CNC controller is a comprehensive set of milling or lathe CNC controller. The controllers of INCON family are equipped with high performance functions. All controllers adopt RTOS so that the motion of NC is precise and high-speed. PLC is programmed with C language to precisely control the auxiliary devices of machine.
Unrestricted Developing Condition

Server type open CNC controller and Client operate independently, they only communicate with each other. Hence, the development of Client does not affect the internal operation of CNC controller, which means that its development is unrestricted to any operating system or program language. Client can be integrated with host systems or sensor systems such as MES or AOI based on needs.

**Controller**

System: Windows, Linux, Mac...
Language: C++, Qt, Java...

**Client**

**Application Layer**: INTEK Protocol, FTP Protocol

**Transport Layer**: TCP

**Internet Layer**: IP

**Data Link Layer**: Physical Layer: 網路卡、RJ45、Cable線、光纖、集線器
 Specification

- More information about the basic CNC controller functions please refer to the product catalogues.
- The communication ports of server type open CNC controller are: 50000, 50001, 50002, 50004, and FTP(21).
- Communication protocol - INTEK application layer format 4 types: ASK, CMD, SET, ECHO.

Family Map

- General Servo Interface: INCON-M675S, INCON-M670S, INCON-M470S.
- EtherCAT Interface: INCON-M86RS, INCON-M86S.
離散式系統結構

伺服型開放式 CNC 控制器和應用端 (Client) 使用乙太網路、TCP/IP 和 FTP，因此 IP 可高達 256，所以利用 IP 位址區分應用端 (Client) 和伺服端可以構成離散式結構，應用端 (Client) 和伺服端 (Server) 可以一對一、一對多、多對一，該離散結構也可以輕易整合智慧型機器人、無人搬運車至離散式系統結構。

Discrete System Structure

Server type open CNC controller and Client use Ethernet, TCP/IP, and FTP. The total number of IP address is up to 256. Server and Client can construct a discrete structure which can be one-to-one, one-to-many, or many-to-one. The discrete structure can also be integrated with intelligent robot or automatic guided vehicle.