

ioLogik 2500 系列

具備 Click&Go Plus 邏輯的智慧型乙太網路遠端 I/O



特色與優點

- 前端智慧加上Click&GoPlus 控制邏輯，最多可有 48 條規則
- 透過 MX-AOPCUA 伺服器進行通訊
- 透過 MX-AOPCUA 記錄器軟體自動續傳補齊中斷連線期間的資料
- 內建 4 埠非網管型交換器以連結至乙太網路裝置
- I/O 擴充埠適用於最多 8 部 ioLogik E1200 裝置的雛菊鏈
- 三合一串列埠：RS-232、RS-422 或 RS-485
- 支援 SNMP v1/v2c/v3
- 透過適用於 Windows 或 Linux 的 MXIO 程式庫簡化 I/O 管理
- 提供寬操作溫度型號，適合 -40 至 75°C (-40 至 167°F) 的作業環境

認證



簡介

ioLogik 2500 智慧型乙太網路遠端 I/O 裝置具有獨特硬體及軟體設計，使其成為適用於各種工業資料擷取應用的理想解決方案。ioLogik2500 的硬體設計配備 4 埠非網管型乙太網路交換器及 2 個串列埠，可無縫連接各類現場裝置。

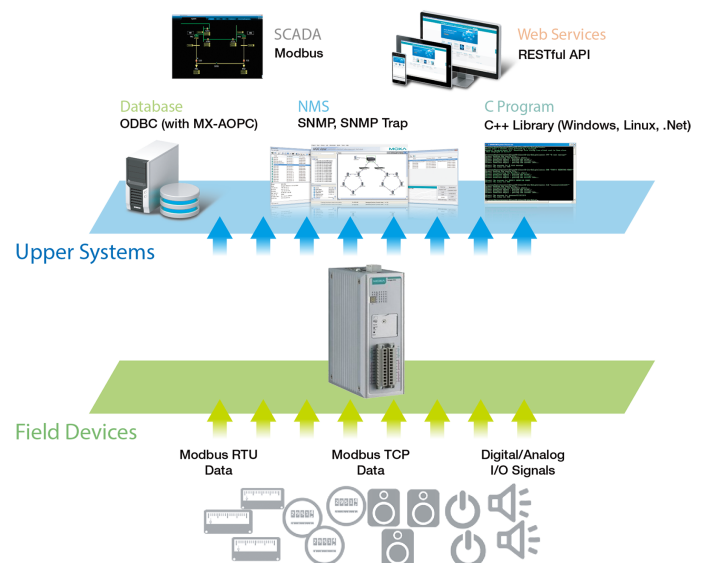
其中一個乙太網路連接埠可用於連結 8 個雛菊鏈 ioLogik E1200 擴充模組，以提供超過 100 個通道。ioLogik2500 作為「主控」裝置，透過 Click&Go Plus 邏輯控制整個 I/O 陣列。最重要的是，僅需單一 IP 即可將整個 I/O 陣列連接到網路，為 IP 位址不足的工業現場提供完美解決方案。

免程式設計 Click&GoPlus™ 邏輯

Click&Go Plus™ 控制邏輯支援最多 48 條規則及 8 個條件/動作。此外，其圖形使用者介面提供 3 個邏輯閘與 3 層架構，可協助建構更強大且高效的 I/O 解決方案。完成 Click&GoPlus™ 邏輯規則設定後，您可透過 Ioxpress 的易用模擬功能，在上傳至線上裝置前尋找 Click&GoPlus™ 規則中的潛在錯誤。

多通訊協定資料集中器

ioLogik 2500 支援多種通訊協定，能有效提升現場資料收集效率，並將資料傳送至上層系統。在現場資料收集的過程中，ioLogik2500 可透過 ModbusTCP 與 ModbusRTU 從其他第三方裝置收集資料，並能讓您連結最多 8 個 ioLogikE 1200 模組，建立超過 100 個不同 I/O 通道的多樣性 I/O 陣列，使所有現場資料皆可由上層系統存取。針對上層系統，ioLogik 2500 支援 Modbus TCP、SNMP、SNMP 陷阱、RESTful API、Active OPC 標籤及 C++ 程式庫，可輕鬆與各類 IT/OT 系統整合，使 ioLogik2500 成為連接現場與網路的完美資料集中器。



透過本機儲存資料記錄確保數據完整性

ioLogik2500 支援 microSD 卡，可將其轉變成功能強大的資料記錄器以儲存寶貴資料。現場端的重要資料可透過 FTP 讓不同系統遠端存取，而當網路意外中斷時，ioLogik 的資料完整性功能可透過 MX-AOPCUA 套件實現資料的即時監控。

規格

Memory

microSD Slot	Up to 32 GB (SD 2.0 compatible) Note: For units operating in extreme temperatures, industrial-grade, wide-temperature microSD cards are required.
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Control Logic

Language	Click&Go Plus
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Input/Output Interface

Digital Input Channels	ioLogik 2512/2512-T: 8
Configurable DIO Channels (by software)	ioLogik 2512/2512-T: 8 ioLogik 2542/2542-T: 12
Analog Input Channels	ioLogik 2542/2542-T: 4
Buttons	Reset button
Isolation	3k VDC or 2k Vrms

Digital Inputs

Connector	Screw-fastened Euroblock terminal
Sensor Type	Dry contact Wet contact (NPN or PNP)
I/O Mode	DI or event counter
Dry Contact	On: short to GND Off: open
Wet Contact (DI to COM)	On: 10 to 30 VDC Off: 0 to 3 VDC
Counter Frequency	2.5 kHz
Digital Filtering Time Interval	Software configurable
Points per COM	ioLogik 2512/2512-T: 8 channels ioLogik 2542/2542-T: 6 channels

Digital Outputs

Connector	Screw-fastened Euroblock terminal
I/O Type	Sink
I/O Mode	DO or pulse output
Current Rating	500 mA per channel
Pulse Output Frequency	5 kHz (max.)
DIO Output Leakage Current	< 1 mA @ 30 VDC
Overcurrent Protection	1.5 A per channel @ 25°C

Over-temperature Shutdown	175°C (typical), 150°C (min.)
Over-voltage Protection	45 VDC (typical)

Analog Inputs

Connector	ioLogik 2542/2542-T: Screw-fastened Euroblock terminal
I/O Mode	ioLogik 2542/2542-T: Voltage/Current
I/O Type	ioLogik 2542/2542-T: Differential
Converter Resolution	ioLogik 2542/2542-T: 16 bits
Input Range	ioLogik 2542/2542-T: ±10 VDC 0 to 10 VDC 0 to 20 mA 4 to 20 mA 4 to 20 mA (with burn-out detection)
Accuracy	ioLogik 2542: ±0.1% FSR @ 25°C ±0.3% FSR @ -10 to 60°C ioLogik 2542-T: ±0.1% FSR @ 25°C ±0.3% FSR @ -10 to 60°C ±0.5% FSR @ -40 to 75°C
Sampling Rate	ioLogik 2542/2542-T: All channels combined: 400 samples/sec Per channel: 100 samples/sec
Built-in Resistor for Current Input	ioLogik 2542/2542-T: 120 ohms
Input Impedance	ioLogik 2542/2542-T: 1 mega-ohms (min.)
Over-Voltage Protection	ioLogik 2542/2542-T: -25 to +30 VDC (power on) -35 to +35 VDC (power off)

Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	4, 1 MAC address
Magnetic Isolation Protection	1.5 kV (built-in)

Ethernet Software Features

Configuration Options	Web Console (HTTP/HTTPS) Windows Utility (IOxpress)
Industrial Protocols	CGI commands Modbus TCP Client (Master) Modbus TCP Server (Slave) Moxa AOPC (Active Tag) MXIO Library RESTful API SNMPv1/v2c/v3 SNMPv1/v2c Trap
Management	BOOTP, IPv4, SMTP, TCP/IP, DHCP Client
MIB	Device Settings MIB
Security	HTTPS/SSL
Time Management	SNTP

LED Interface

LED Indicators	PWR, RDY, Serial port (P1, P2), Ethernet port (L1 to L4), I/O Channel Status (0 to 15)
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Serial Interface

Baudrate	300, 1200, 1800, 2400, 4800, 7200, 9600, 19200, 38400, 57600, 115200 bps
Connector	8-pin RJ45
Data Bits	5, 6, 7, 8
Flow Control	None RTS/CTS XON/XOFF
No. of Ports	2
Parity	None Even Odd
Serial Standards	RS-232 RS-422 RS-485
Stop Bits	1, 2

Serial Signals

RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422	Tx+, Tx-, Rx+, Rx-, GND
RS-485-2w	Data+, Data-, GND
RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND

Serial Software Features

Industrial Protocols	Modbus RTU Master
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Platform

Real-time Clock (RTC)	Real-time clock with capacitor backup
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Power Parameters

Power Connector	Screw-fastened Euroblock terminal
No. of Power Inputs	1
Input Voltage	12 to 48 VDC
Power Consumption	ioLogik 2512/2512-T: 254 mA @ 24 VDC, 529 mA @ 12 VDC, 133 mA @ 48VDC ioLogik 2542/2542-T: 281 mA @ 24 VDC, 589 mA @ 12 VDC, 144 mA @ 48 VDC

Physical Characteristics

Housing	Metal
IP Rating	IP30
Dimensions	61 x 157 x 115 mm (2.4 x 6.18 x 4.53 in)
Weight	1,265 g (2.79 lb)

Installation	DIN-rail mounting Wall mounting (with optional kit)
Wiring	I/O cable, 16 to 26 AWG Power cable, 12 to 24 AWG

Environmental Limits

Operating Temperature	Standard Models: -10 to 60°C (14 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Altitude	2000 m

Standards and Certifications

EMC	EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 1 kV, Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Hazardous Locations	ATEX Class I Division 2
Safety	UL 508

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	ioLogik 2512/2512-T: 514,425 hrs ioLogik 2542/2542-T: 444,027 hrs
Standards	Telcordia Standard SR-332

Warranty

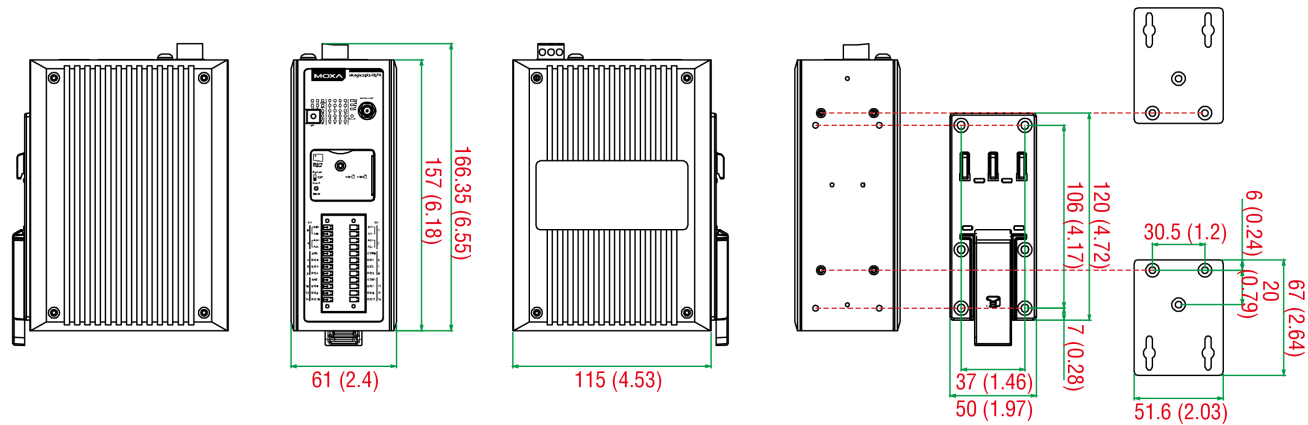
Warranty Period	5 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x ioLogik 2500 Series remote I/O
Cable	2 x RJ45-to-DB9 console cable
Installation Kit	1 x cable holder with screw 6 x cap, plastic, for RJ45 port
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Input/Output Interface	Wireless Standard	Operating Temp.
ioLogik 2512	8 x DI, 8 x DIO	–	-10 to 60°C
ioLogik 2512-T	8 x DI, 8 x DIO	–	-40 to 75°C
ioLogik 2542	4 x AI, 12 x DIO	–	-10 to 60°C
ioLogik 2542-T	4 x AI, 12 x DIO	–	-40 to 75°C

配件（選購）

Software

MX-AOPC UA Server	OPC UA Server software for converting fieldbus to the OPC UA standard
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Wall-Mounting Kits

WK-51-01	Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws
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