

DA-681C 系列

配備第 7 代 Intel® Core™ 處理器、6 個千兆乙太網路埠和 12 個隔離串列埠並且符合 IEC-61850 標準的 1U 機架式工業電腦



特色與優點

- 符合 IEC 61850-3、IEEE 1613 及 IEC 60255 標準，適用於變電站自動化系統
- 符合 EN 50121-4 標準，適合鐵路軌旁應用
- 第 7 代 Intel® Core™ 處理器
- DDR4 記憶體插槽；容量可達 32GB
- 電源備援系統 (100 至 240 VAC/VDC)

認證



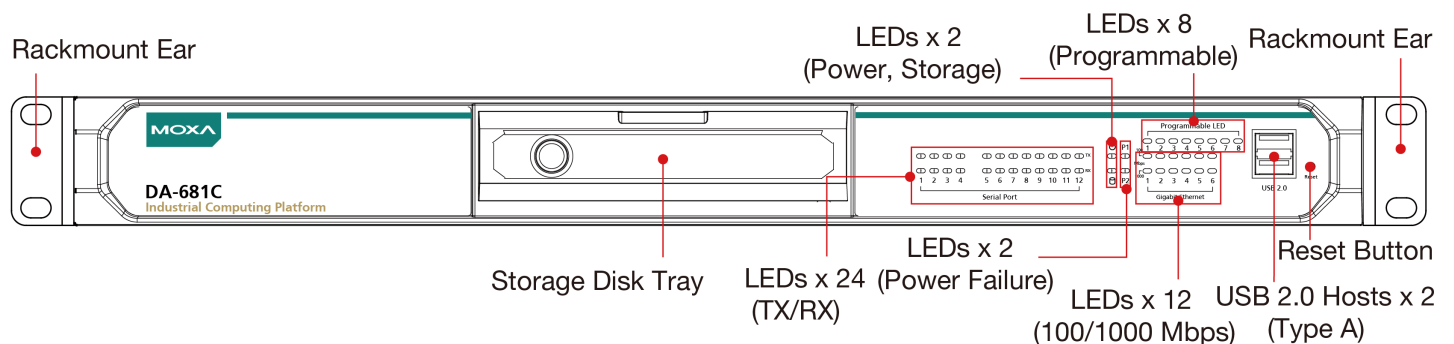
簡介

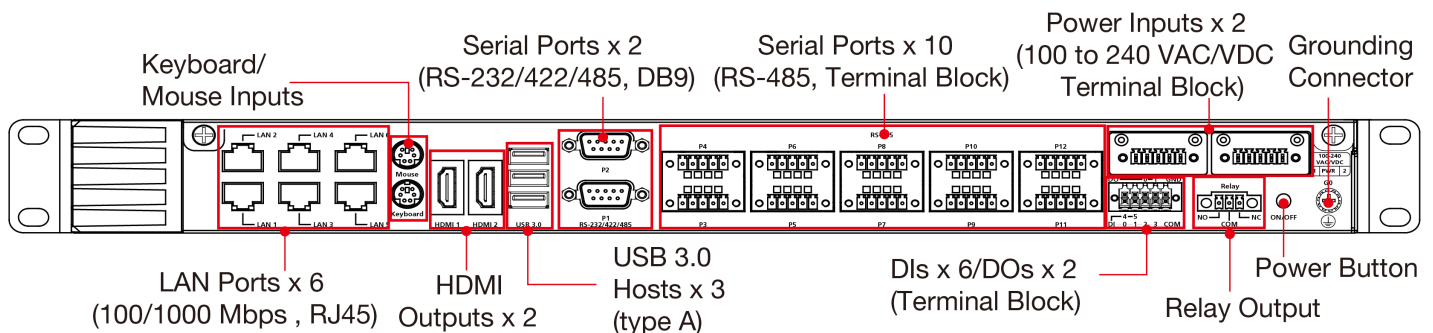
DA-681C 電腦搭載 Intel® Celeron® 或 Intel® Core™ i3 CPU，並配備雙顯示埠(2 個 HDMI)、5 個 USB 連接埠、6 個千兆乙太網連接埠、2 個三合一 RS-232/422/485 串列埠、10 個 RS-485 (2 線) 串列埠、6 個數位輸入埠，以及 2 個數位輸出埠。此外，還包含一個 2.5 吋硬碟 / 固態硬碟插槽和一個 mSATA 插槽，可為需要大量儲存空間進行邊緣資料擷取的工業應用擴充儲存容量。

由於符合 IEC 61850-3 及 IEEE 1613 標準，DA-681C 無疑能夠為電力應用提供穩定可靠的系統運作。此外，DA-681C 符合 EN 50121-4 標準，因此能夠在軌道沿線應用中提供穩定可靠的系統運作，例如車站 SCADA 系統、鐵路沿線災難預防、牽引動力、訊號和安全系統，讓您完整掌握智慧型鐵道配置。

外觀

前視圖





規格

Computer

CPU	Intel® Core™ i3-7100U Processor (2M Cache, 2.4 GHz) Intel® Celeron® 3965U Processor (2M Cache, 2.2 GHz)
System Memory Slot	SODIMM DDR4 slots x 2
DRAM	32 GB max. capacity (SODIMM x 2, each supporting 2400 MHz and 16 GB maximum per module)
Graphics Controller	Intel® HD Graphics 630
Storage Slot	2.5-inch HDD/SSD slots x 1 mSATA slots x 1
Supported OS	Windows 10 IoT Enterprise LTSC 2019 Value (64-bit) Linux Debian 9 Linux SDKs supported: Debian 12 Ubuntu 22.04 (LTS & HWE) RedHat 9 CentOS 7.9

Computer Interface

USB 2.0	USB 2.0 hosts x 3, type-A connectors 2 ports on the front panel, 1 port inside the computer
USB 3.0	USB 3.0 hosts x 3, type-A connectors 3 ports on the rear panel
Video Output	HDMI x 2, HDMI connector (type A)
Serial Ports	RS-232/422/485 ports x 2 (software-selectable, DB9 male connector) RS-485 (2-wire) ports x 10 (terminal-block connector)
Ethernet Ports	Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 6
Secure Boot	UEFI
TPM	TPM v2.0

Digital Inputs

Connector	Screw-fastened Euroblock terminal
I/O Mode	DI
Isolation	3k VDC
Sensor Type	Dry contact Wet contact (NPN)

Dry Contact	Logic 0: Close to GND Logic 1: Open
Wet Contact (COM to DI)	Logic 0: 10 to 30 VDC Logic 1: 0 to 3 VDC

Digital Outputs

Connector	Screw-fastened Euroblock terminal
Current Rating	200 mA per channel
I/O Type	Sink
Voltage	0 to 30 VDC
Isolation	3k VDC

LED Indicators

System	Programmable x 8 Storage x 1 Power x 1
LAN	2 per port (10/100/1000 Mbps)
Serial	2 per port (Tx, Rx)

Serial Interface

Baudrate	50 bps to 115.2 kbps
Connector	Terminal block
ESD	8 kV (level 4)
Isolation	2 kV
Serial Standards	RS-232/422/485
Surge	2 kV

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

Power Parameters

Input Current	100 to 240 VAC, 50/60 Hz, 1.6 A (max) 100 to 240 VDC, 0.8 A (max)
Power Button	Reset button (front panel) ON/OFF (rear panel)

Physical Characteristics

Housing	Metal
Dimensions (without ears)	440 x 316 x 44 mm (17.32 x 12.44 x 1.73 in)
Weight	9,000 g (21.82 lb)
Installation	19-inch rack mounting

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)

Standards and Certifications

EMC	EN 55032/35
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 4 kV; Signal: 4 kV IEC 61000-4-5 Surge: Power: 4 kV; Signal: 4 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8: 20 A/m IEC 61000-4-11
Power Substation	IEC 61850-3 IEEE 1613
Protection Relay	IEC 60255
Shock	IEC 61850-3 Edition 2.0, IEC 60068-2-27, IEC 60255-21-2
Safety	UL 62368-1

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	285,419 hrs
Standards	Telcordia Standard SR-332

Warranty

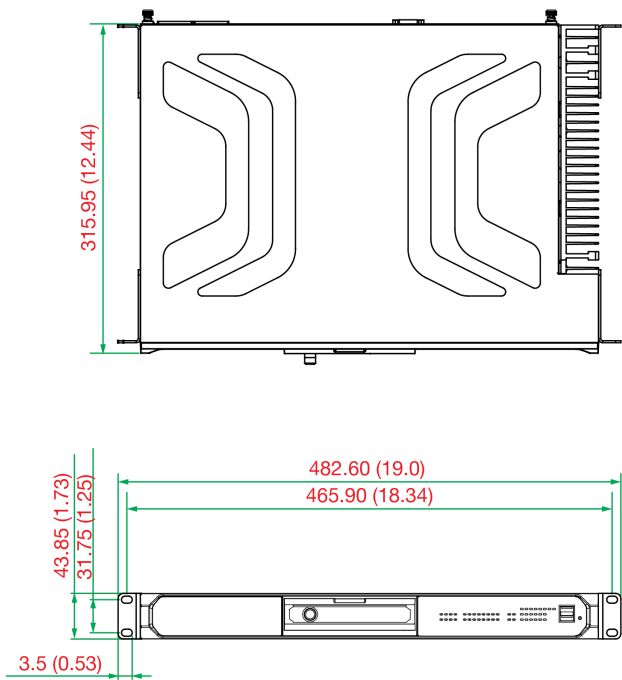
Warranty Period	3 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x DA-681C Series computer
Installation Kit	1 x rack-mounting ear
Documentation	1 x quick installation guide 1 x warranty card
Note	This product requires additional modules (sold separately) to function.

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	CPU	Power Input 100-240 VAC/VDC	Operating Temp.
DA-681C-KL1-H-T	Intel® Celeron® 3965U	Single	-40 to 70°C
DA-681C-KL1-HH-T	Intel® Celeron® 3965U	Dual	-40 to 70°C
DA-681C-KL3-HH-T	Intel® Core™ i3-7100U	Dual	-40 to 70°C

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