

EXPC-F2150W 系列

通過 Zone 2 危險戶外場所認證的 15.6 吋無風扇工業觸控面板電腦



特色與優點

- 15.6 吋 16:9 顯示器
- 高效能 Tiger Lake Intel® Core™ i7/ Core™ i5/Core™ i3 或 Intel® Celeron® 處理器
- 內建光感測器，可自動調整亮度
- 1200 尼特高亮度、防眩光螢幕，日光下可讀
- 採用光學貼合技術的顯示器，適用於惡劣環境部署
- 無風扇散熱設計，於高溫環境下仍可穩定運作
- 通過 UL C1D2/C2D2、ATEX 與 IECEx ZONE 2/Zone 22 認證
- 前側通過 IP66 認證，後側通過 IP42 認證
- -40°C 至 70°C 操作溫度範圍
- 可選配 5G 與 Wi-Fi 6 無線連線模組
- 專為在危險場所及針對重要任務應用部署所設計

認證



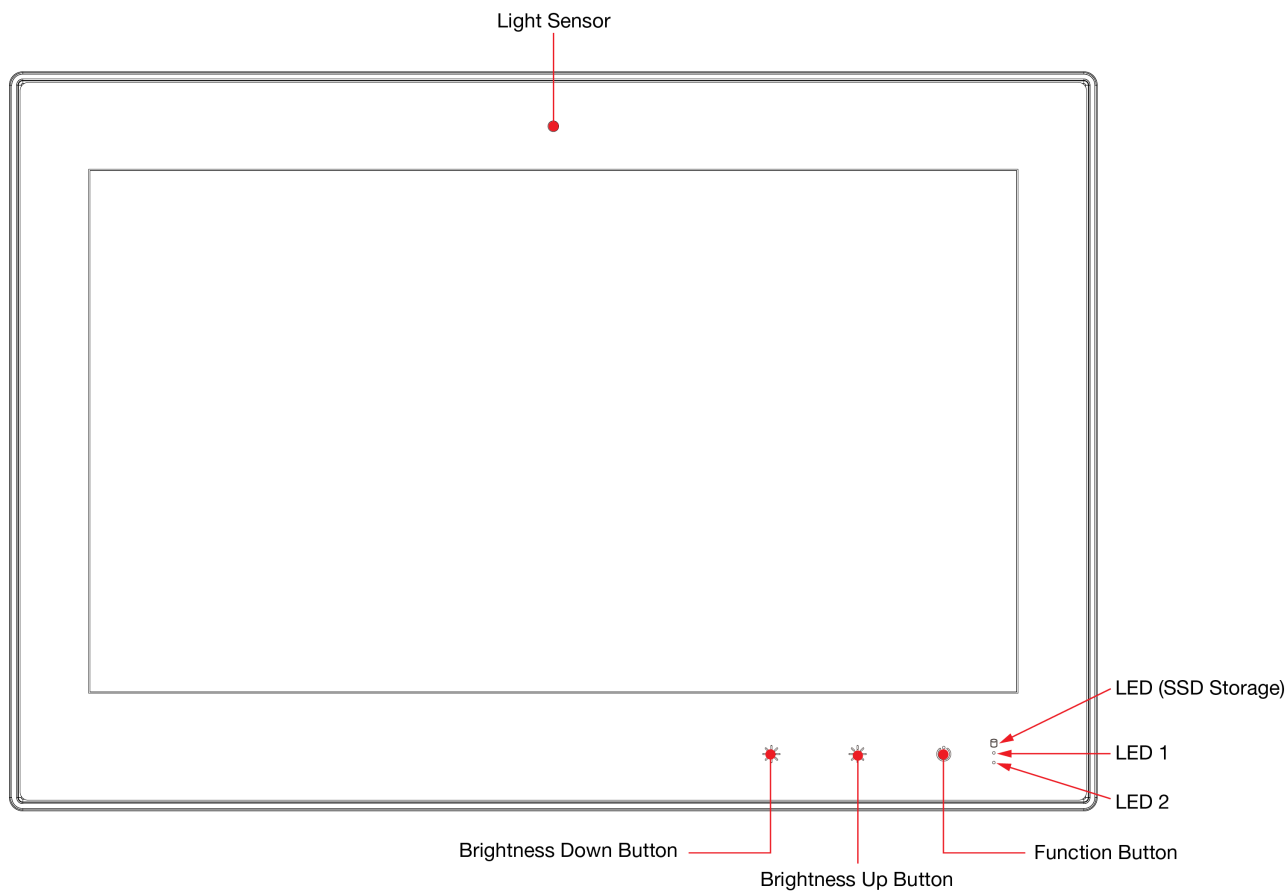
簡介

EXPC-F2150W 系列包含 15.6 吋工業觸碰面板電腦及第 11 代 Intel Core™ i 處理器，提供可靠、耐用及多樣化的平台，在工業、危險及重要任務環境中使用。EXPC-F2150W 面板 PC 隨附一組豐富的通訊介面，可滿足您所有的工業應用情境需求。面板 PC 也提供 DisplayPort 與 VGA 視訊輸出，以便於擴展顯示。

EXPC-F2150W 採用無風扇設計，可在 -40 至 70°C 的溫度範圍內操作，並提供具充分散熱功能的流線型外殼，使其成為最可靠的工業平台，可用於嚴苛、高溫、室外環境，例如油田及天然氣田、探鑽平台與發電廠，以及智慧型暖氣解決方案。觸碰面板電腦也專門設計了日光可讀功能，例如 1200 尼特 LCD 面板、可支援手套操作的投射式電容觸控螢幕、多點觸控螢幕、光學貼合及抗眩光設計，可為戶外應用提供絕佳使用者體驗。

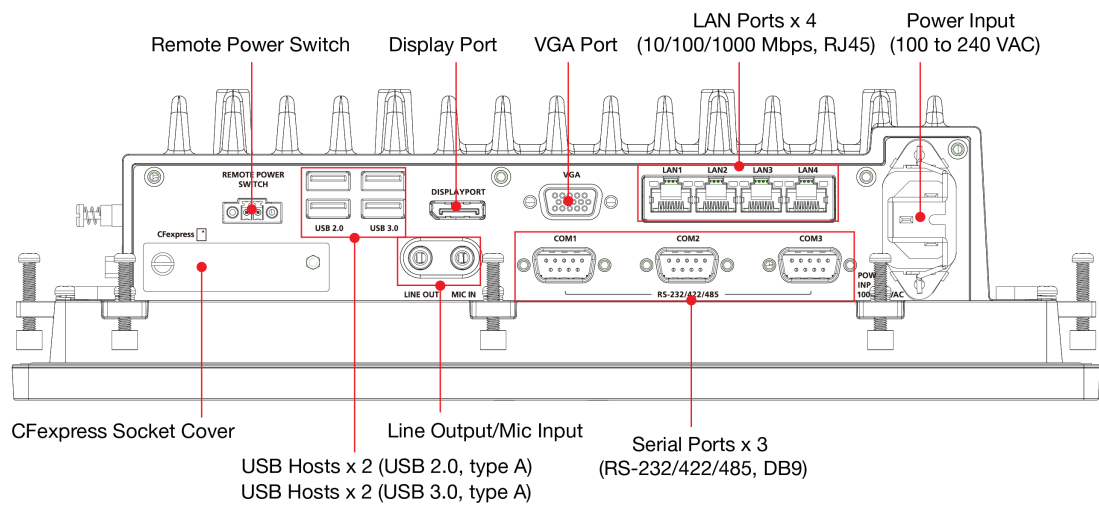
外觀

前視圖

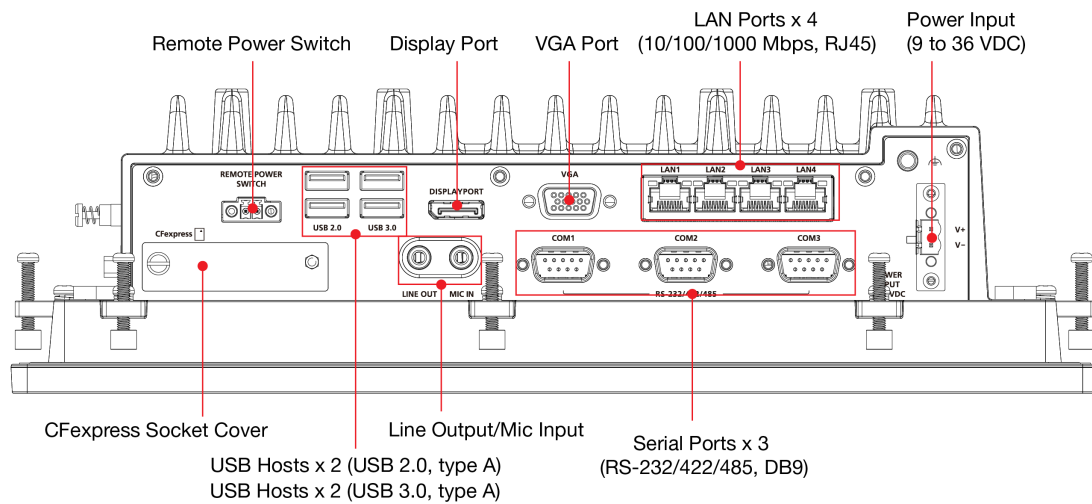


底視圖

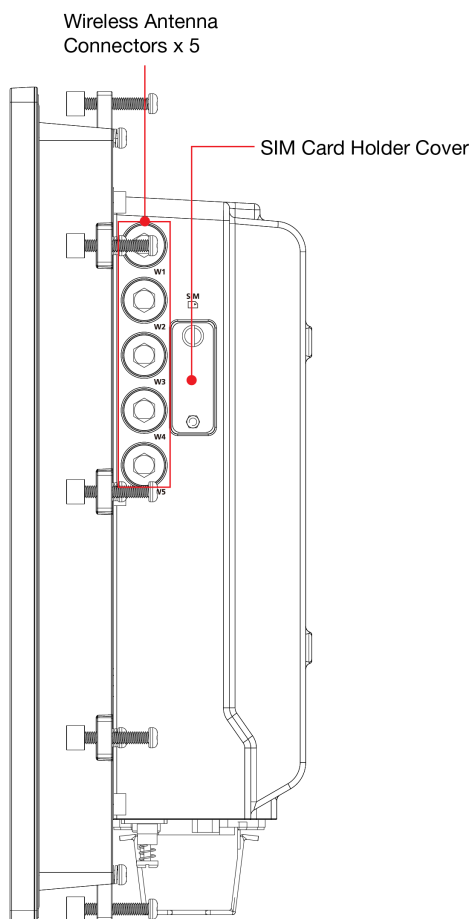
配備 AC 電源輸入的型號



配備 DC 電源輸入的型號



側視圖



規格

Computer

CPU	TL3 models: Inte® Core™ i3-1115G4E TL5 models: Intel® Core™ i5-1145G7E TL7 models: Intel® Core™ i7-1185G7E
Graphics Controller	Intel® Core i7 models: Intel® Iris® Xe Graphics Intel® Core i5/i3 models: Intel® UHD Graphics
System Memory Pre-installed	16 GB (64 GB max)
System Memory Slot	SODIMM DDR4 slots x 2, up to 64 GB
Pre-installed OS	OS is not pre-installed OS installation via CTOS
Supported OS	Windows 11 Professional 23H2 64-bit Windows 10 Enterprise LTSC 21H2 Debian 11 (driver)
Storage Slot	M.2 B key x 1 for SSD (internal, optional) CFexpress slots x 1 (external, default)

Computer Interface

Ethernet Ports	Auto-sensing 10/100/1000 Mbps ports (RJ45 connector) x 4
Serial Ports	RS-232/422/485 ports x 3 (software-selectable, DB9 male connector)
USB 3.0	USB 3.0 hosts x 2, type-A connectors
USB 2.0	USB 2.0 hosts x 2, type-A connectors
Audio Input/Output	Line in x 1, mic-out x 1, 3.5 mm phone jack
Video Output	DisplayPort x 1 VGA x 1, 15-pin D-sub connector (female)
Expansion Slots	M.2 B key slot x 1 for 5G module M.2 E key slot x 1 for Wi-Fi module
TPM	TPM v2.0
Remote Management	Intel® Active Management Technology (AMT) support

LED Indicators

System	Power x 1 Storage x 1, SSD
LAN	2 per port, configurable by BIOS settings or via a Moxa software utility
Serial	2 per port, configurable by BIOS settings or via a Moxa software utility

Display

Active Display Area	344.16 (H) x 193.59 (V) mm
Aspect Ratio	16:9
Contrast Ratio	750:1
Light Intensity (Brightness)	1200 nits
Max. No. of Colors	16.7M (8-bit/color)
Panel Size	15.6 in

Panel Type	SFT
Pixel Pitch (RGB)	0.17925 (H) x 0.17925 (V) mm
Pixels	1920 x 1080
Response Time	30 ms (typ.)
Viewing Angles	Horizontal: 88°/88° Vertical: 88°/88°

Touch Function

Touch Type	Projective Capacitive touchscreen (PCAP) GGG sensor with optical bonding
Touch Support Points	4 points (max multi-touch points) 1 point (glove-friendly design)

Serial Interface

Baudrate	50 bps to 115.2 kbps
Data Bits	5, 6, 7, 8
Flow Control	RTS/CTS, XON/XOFF ADDC (automatic data direction control) for RS-485 RTS Toggle (RS-232 only)
Parity	None, Even, Odd, Space, Mark
Stop Bits	1, 1.5, 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

Power Parameters

Input Voltage	DC models: 9 to 36 VDC AC models: 100 to 240 VAC
Power Consumption	70 W (max.) 100 W (with thermal heater)

Physical Characteristics

Housing	Aluminum
IP Rating	IP66 (front) IP42 (rear; with all IOs plugged in)
Dimensions	403.99 x 274.48 x 99 mm (15.91 x 10.81 x 3.90 in)
Weight	6,900 g (15.21 lb)

Environmental Limits

Operating Temperature	-40 to 70°C (-40 to 158°F)
Storage Temperature (package included)	-45 to 75°C (-49 to 167°F)
Altitude	3000 m

Standards and Certifications

EMC	EN 55032/35 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; 1.8, 2.6, 3.5, 5 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV(AC), 1 kV(DC); Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV (AC), 0.5 kV (DC L-L), 1 kV (DC L-G); Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Hazardous Locations	EN / IEC 60079-0 EN / IEC 60079-7 EN / IEC 60079-15 C1D2/C2D2, ATEX, and IECEx ZONE 2/Zone 22
Mechanical Protection Rating	IEC 60529, IP code
Safety	UL 62368-1 EN 62368-1 IEC 62368-1
Shock	IEC 60068-2-27 compliant (with CFexpress card, 20G)
Vibration	IEC 60068-2-27 compliant (with CFexpress card, 20G)
UV Protection	IEC60068-2-5 CIE85: 300 to 3000 nm (included UV, visible, IR); 1000 hrs (procedure C; continuously for 24 hrs)

Declaration

Green Product	RoHS, CRoHS, WEEE
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Warranty

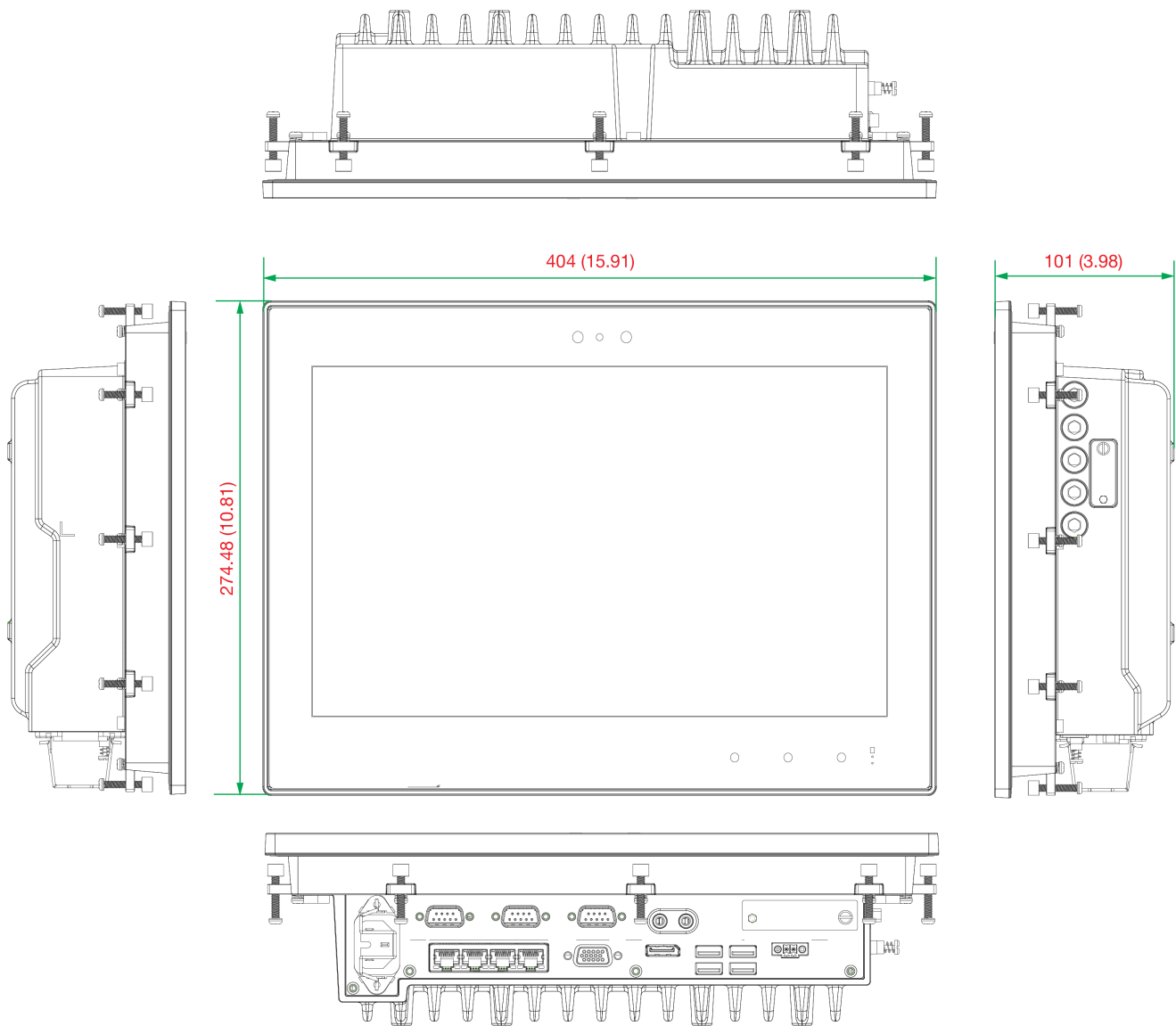
Warranty Period	LCD: 1 year System: 3 years
Details	See www.moxa.com/tw/warranty

Package Contents

Device	1 x EXPC-F2150W Series panel PC
Installation Kit	1 x panel-mounting kit DC models: 1 x 2-pin terminal block for DC power connector AC models: 1 x AC adapter cable with C14 male to C15 female connectors
Documentation	1 x quick installation guide 1 x warranty card

尺寸

單位：公釐（英吋）



訂購資訊

Model Name	Panel	CPU	RAM	OS Preinstalled	Touchscreen	LAN	Serial	Video Outputs	Power Input	IP Rating	Operating Temp.
EXPC-F2150W-TL3-DC	15.6" (16:9) 1,200 nits	Intel® Core™ i3-1115G4E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	9 to 36 VDC	IP66 (front), IP42 (rear)	-40 to 70°C
EXPC-F2150W-TL5-DC	15.6" (16:9) 1,200 nits	Intel® Core™ i5-1145G7E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	9 to 36 VDC	IP66 (front), IP42 (rear)	-40 to 70°C
EXPC-F2150W-TL7-DC	15.6" (16:9) 1,200 nits	Intel® Core™ i7-1185G7E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	9 to 36 VDC	IP66 (front), IP42 (rear)	-40 to 70°C

Model Name	Panel	CPU	RAM	OS Preinstalled	Touchscreen	LAN	Serial	Video Outputs	Power Input	IP Rating	Operating Temp.
EXPC-F2150W-TL3-AC	15.6" (16:9) 1,200 nits	Intel® Core™ i3-1115G4E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	100 to 240 VAC	IP66 (front), IP42 (rear)	-40 to 70°C
EXPC-F2150W-TL5-AC	15.6" (16:9) 1,200 nits	Intel® Core™ i5-1145G7E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	100 to 240 VAC	IP66 (front), IP42 (rear)	-40 to 70°C
EXPC-F2150W-TL7-AC	15.6" (16:9) 1,200 nits	Intel® Core™ i7-1185G7E	16 GB (64 GB max)	–	PCAP	4	3	1 x VGA 1 x DisplayPort	100 to 240 VAC	IP66 (front), IP42 (rear)	-40 to 70°C

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