

X3 - 開啟人機介面新紀元



X3 系列

我們隆重宣布全新 X3 系列正式上市! 這是在 HMI 技術上的最新創新, 涵蓋搭載 iX 的人機介面與 Web 面板。

X3 系列提供 7 至 21 吋極致黑外觀機型, 專為一般製造、船舶應用與強固型環境所設計, 並具備多項嚴格認證, 品質值得信賴。

搭載全新 OS3 作業系統, 提供直覺化操作介面, 讓裝置管理更加輕鬆。結合 iX 與 WebIQ HMI 軟體, 使用者可快速打造友善的人機介面應用, 全面提升效率與使用體驗。

為什麼 X3 是您的最佳選擇



開放 HMI 平台

X3 是一款開放式 HMI 平台, 支援基於 Web 與 iX 的應用程式, 並相容 Docker 與 NuGet 套件, 可靈活擴充自訂功能, 同時具備與各大主流 PLC 品牌的連接能力。



專注於網路安全

我們以符合 IEC 62443 標準為優先, 透過先進的加密技術與保護措施, 強化 X3 的網路安全, 打造一個安全的平台。



輕鬆轉換

簡單的專案轉換、與 X2 相同的開孔尺寸與連接器, 以及直觀的 iX3 介面, 使從任何 HMI 過渡到 X3 都變得輕而易舉。



高品質

高品質來自其堅固的設計、嚴格的品質管控、業界認證以及客戶的回饋, 並充分整合於 X3、iX3 與 OS3 中。



易上手

X3 系列非常注重簡單易用, 從開箱到最終配置及日常運行, 提供直觀、無縫的使用體驗, 旨在滿足每位用戶的需求。



X3 pro

工業專屬設計 · 客製靈活強固可靠

X3 pro HMI 提供多功能且安全的人機介面平台，專為 iX 為基礎的應用而設計。透過 C# 腳本實現客製化功能，藉由 NuGet 套件擴充能力，並搭載現代化的網頁瀏覽器，X3 pro 確保穩定而強固的效能表現。

依循 IEC 62443-4-2 標準，提供加密通訊與安全的資料傳輸。憑藉高品質硬體、屢獲殊榮的設計、強大的 CPU 以及大容量記憶體，X3 pro HMI 保證系統最大化運行時間。此外，X3 pro 亦提供網頁面板版本，為您帶來更多技術選擇。



量身打造的人機介面體驗

X3 pro 提供開放式 HMI 平台，支援 iX 應用程式，可透過 C# 腳本客製化功能，並透過 NuGet 套件擴充更多應用能力，內建現代化網頁瀏覽器。此外，也提供 web 面板機型，全面升級您的使用體驗。



強化您的資安防護

X3 pro 人機介面遵循 IEC 62443-4-2 標準，確保設備運行安全，支援加密通訊與通訊埠控管等功能。搭載的 OS3 作業系統則具備安全的資料傳輸與使用者管理機制，全面提升資安防護等級。



確保最高運轉時間

高品質硬體、穩定軟體、嚴選元件與嚴格測試，共同打造強固的工業性能，保障終端用戶的生產連續性。人機介面通過業界認證，配備強大 CPU 與大容量記憶體。



輕鬆升級無負擔

X3 採用與 X2 相同的螢幕尺寸、開孔規格及連接器配置，並提供完整的軟體升級指引，讓客戶輕鬆替換面板，快速完成升級。



選擇最適合您的尺寸

同系列提供 7、10、12、15 及 21 吋螢幕，滿足各種應用需求，完美貼合您的使用場景。



體驗簡易操作

X3 pro 人機介面專為簡單設定與操作而設計，搭載 OS3 作業系統，提供直覺化介面，提升使用便利性，簡化裝置設定，並具備硬體診斷功能。



通過嚴格認證，耐用可靠

具備工業用認證，我們確保產品穩定耐用，符合國際安全標準。



X3 marine

工業級耐用性，專為海事環境優化設計

X3 marine 系列 HMI 提供多功能且安全的平台，專為 iX 系統應用設計。採用 C# 腳本實現客製化功能，並透過 NuGet 套件擴充應用能力。產品符合 IEC 62443-4-2 標準並取得海事認證，確保海上操作安全與穩定可靠的效能。

憑藉高品質硬體、屢獲殊榮的設計、強大處理器與大容量記憶體，X3 marine HMI 保證系統長時間穩定運作。此外，X3 marine 亦提供網頁面板版本，為您的技術選擇增添更多可能性。



通過嚴格認證，耐用可靠

具備工業用認證，我們確保產品穩定耐用，符合國際安全標準。



量身打造的人機介面體驗

X3 marine 提供開放式 HMI 平台，支援 iX 應用程式，可透過 C# 腳本客製化功能，並藉由 NuGet 套件擴充更多能力，內建現代化網頁瀏覽器。此外，也提供 Web 面板機型，全面提升您的使用體驗。



強化您的資安防護

X3 marine 系列 HMI 遵循 IEC 62443-4-2 標準，具備加密通訊、受控通訊埠等安全功能，搭載具安全資料傳輸與使用者管理的 OS3 作業系統，並內建 DNV SP1 認證，確保強固安全防護；同時通過海事認證，保證在海上環境可靠運行，為海事應用提供安心保障。



確保最高運轉時間

高品質硬體、穩定軟體、嚴選元件與嚴格測試，共同打造堅固的工業性能，保障終端用戶的生產連續性。人機介面通過業界認證，配備強大 CPU 與大容量記憶體。事應用提供安心保障。



輕鬆無痛升級

X3 採用與 X2 相同的面板尺寸、開孔規格與連接器配置，並提供完整的軟體轉換指引，讓客戶輕鬆替換，快速完成升級。機型，全面提升您的使用體驗。



選擇最合適的尺寸

同系列提供 7、10、12、15 及 21 吋螢幕，完美符合各種應用需求。



體驗簡易操作

X3 marine 人機介面專為簡單設定與操作設計，搭載 OS3 作業系統，提供直覺化介面，提升使用便利性，簡化裝置設定，並具備硬體診斷功能。



確保晝夜穩定運作

X3 marine 人機介面專為連續運行設計，具備海事調光功能，適用於機艙與駕駛橋，確保全天候最佳可視性與穩定效能。

X3 extreme

強固可靠，專為嚴苛環境打造

X3 extreme 系列 HMI 提供堅固且安全的平台，專為 iX 系統應用設計，具備 C# 腳本客製化功能及透過 NuGet 套件擴充的多元能力。產品符合 IEC 62443-4-2 標準並通過防爆區域認證，確保在嚴苛環境中的安全運作。

憑藉高品質硬體、強大處理器與大容量記憶體，X3 extreme HMI 保證系統最大化運行時間。用戶可輕鬆從 X2 面板升級，並可選擇多種螢幕尺寸。此外，X3 extreme 亦提供網頁面板版本，提升使用體驗。

搭載直覺式 OS3 作業系統及海事調光功能，帶來操作簡易性與最佳視覺效果。



量身打造的人機介面體驗

X3 extreme 提供開放式 HMI 平台，支援 iX 應用程式，可透過 C# 腳本客製化功能，並藉由 NuGet 套件擴充更多能力，內建現代化網頁瀏覽器。此外，也提供 Web 面板機型，全面提升您的使用體驗。



強化您的資安防護

X3 extreme 人機介面遵循 IEC 62443-4-2 標準，確保安全運作，支援加密通訊、通訊埠控管等多項功能。搭載的 OS3 作業系統具備安全的資料傳輸與使用者管理機制。此外，iX 原生內建 DNV SP1 認證，確保嚴格的安全防護措施。人機介面同時取得海事認證及危險區域認證，保障在嚴苛環境中的可靠運作，讓您安心無虞。



確保最高運轉時間

高品質硬體、穩定軟體、嚴選元件與嚴格測試，共同打造堅固的工業效能，保障終端用戶的生產連續性。人機介面通過海事認證，配備強大 CPU 與大容量記憶體。



輕鬆無痛升級

X3 採用與 X2 相同的面板尺寸、開孔規格與連接器配置，並提供完整的軟體轉換指引，讓客戶輕鬆替換，快速完成升級。



選擇最合適的尺寸

同系列提供 7、12 及 15 吋螢幕，完美符合各種應用需求。



體驗簡易操作

X3 extreme 人機介面專為簡單設定與操作設計，搭載 OS3 作業系統，提供直覺化介面，提升使用便利性，簡化裝置設定，並具備硬體診斷功能。



通過嚴格認證，耐用可靠

具備工業用認證，我們確保產品穩定耐用，符合國際安全標準。





X3 web

工業級可靠性，WebIQ 的完美搭檔

X3 web 結合強大效能與先進的 HTML5 網頁技術，實現工業、海事及嚴苛環境中的無縫整合。X3 web HMI 專為可靠性、功能性與資安而打造，通過多元應用認證並針對 WebIQ 最佳化，提供清晰銳利的畫面、直覺化操作以及多種尺寸選擇。X3 web HMI 提供內建 WebIQ 軟體版本及獨立 HMI 版本，滿足不同需求。

無論是製造業、海事應用或嚴苛作業環境，X3 web 都能帶來貼合需求的高端使用體驗。



HTML5 工業應用

支援工業、海事及強固環境中的 HTML5 網頁技術，具備可靠、堅固且強大的效能表現。板機型，全面提升您的使用體驗。



全面認證保障

通過 UL、CE、KCC、FCC 認證，並具備適用於駕駛橋、機艙及控制室的海事認證，以及適用於危險區域的 UL、ATEX 和 IECEx 認證。



卓越品質

業界領先的產品品質，每一台人機介面皆經嚴格測試，確保可靠性、功能性與效能表現。



穩健平台

直覺易用、完善支援且經嚴格測試的 WebIQ 平台，適用於客戶端與伺服器端應用。



資安設計

以資安為核心設計與打造，符合 IEC 62443-4-2 標準，確保系統安全且穩定運作。



支援 Docker

開放式 X3 web 平台支援 Docker 容器，確保應用管理安全多元。



提升使用體驗

硬體加速圖形處理與更高色深帶來清晰畫面、快速反應及高品質渲染，全面提升使用者體驗。



同一系列，多種尺寸

同系列提供 7、10、12、15 及 21 吋螢幕，完美符合各種應用需求。

精簡開發 · 安全擴展

X3 系列採用升級版 iX3 軟體工具，具備全新使用者介面與多項新功能，包括完整的驅動程式清單，以及透過 C# 與 NuGet 支援的進階客製化選項。使用者可如同在 X2 系列般繼續運行 iX 應用程式，確保順暢的轉換體驗。無論是製造業、海事應用或嚴苛作業環境，X3 web 都能帶來貼合需求的高端使用體驗。



快速簡便的人機介面設計

透過 iX3 Developer，簡化人機面板應用程式的開發流程，使專案建立更輕鬆高效，縮短開發時間並提升整體專案效率。現代化設計環境搭配即用元件，支援更快速的工作流程與優質的使用體驗。



可靠且完整的人機介面功能

iX3 Developer 提供您打造專業人機介面解決方案所需的一切。包含警報、趨勢、配方及資料記錄等所有關鍵功能，皆已完整整合且操作簡便。讓您無需額外軟體或複雜設定，即可輕鬆建立可靠且友善的 HMI 應用程式。



量身打造，滿足您的需求

每個專案皆獨一無二，iX3 Developer 提供強大工具協助您達成特定需求。透過 C# 腳本新增進階功能，並運用 NuGet 套件擴充應用能力。高度彈性讓您能針對特殊工作流程、系統整合或商業需求，客製化專屬的人機介面應用程式。



輕鬆升級從 iX2 到 iX3

從 iX2 升級至 iX3 非常簡單，您可重複使用現有專案，節省時間並保留既有成果，無需從頭重建。全新介面及新增的自訂功能，讓升級過程順暢且高效。





企業級準備，強健可擴展性

iX3 與 OS3 支援企業級運營，可管理多台人機面板並確保資料安全傳輸。透過 Active Directory (AD) 進行用戶管理，並結合多重驗證與單一登入 (SSO) 強化安全性。這些功能共同確保安全存取，並提升 IT 管理效率。


OS3

Apps

 About


 User management

 Apps

 Date & Format

 Display

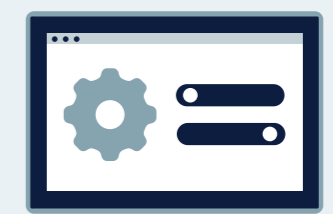
 Network

 System

OS3 作業系統

為效率而設計

X3 系列 HMI 採用 OS3 作業系統，為裝置設定的配置與管理帶來流暢且直覺的操作體驗。它提供精簡且強化的軟體使用感受，全面提升每位使用者的靈活性與效能。



集中式安全管理

為執行 iX 應用程式的裝置提供集中式安全管理，確保一致且安全的運行。

直覺化裝置設定

使用者友善的 OS3 介面設計，操作簡單易上手，讓裝置設定與管理更直覺。

輕鬆打造，動態響應式使用者介面

WebIQ 採用開放式網頁技術 (OPC-UA、HTML5、CSS、JavaScript) 從零開始全新打造，完全無遺留舊系統問題，並全面支援響應式版面設計，確保您的 HMI 能在機台、平板與智慧型手機上流暢運作。



100% 網頁化

完全基於開放標準 HTML5、CSS 與 JavaScript 建構。的自訂功能，讓升級過程順暢且高效。



低程式碼設計

WebIQ Designer 讓您透過簡單的拖放介面輕鬆打造專屬人機介面。



完全響應式設計

無論是在機器上的顯示器，或是平板、智慧型手機等行動裝置，皆能完美呈現。



開放平台

您不需依賴我們，即可自行開發所需的自訂元件與新增人機介面功能。



持續改進

每年多次版本更新，定期新增功能並修正錯誤。



邊緣運算系統

作為邊緣運算系統，WebIQ 亦可作為雲端系統的資料樞紐。



	X3 pro 7	X3 pro 10
General description		
Part number	630000215	630000315
Warranty	2 year	
Certifications		
General	CE, FCC, KCC	
Safety	UL 61010-2-201	
Mechanical		
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm
Mounting option	Panel Mount / VESA 75x75	
Number of touches	1million finger touch operations	
Touch type	Resistive	
Cut-out size	189 x 128 mm	275 x 177 mm
Weight	1.2 kg	1.9 kg
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.	
Power consumption (max)	typ- 8W / max. 12W	typ- 12W / max. 18W
Input fuse	Internal DC fuse, 3.15 AT	Internal DC fuse, 4 AT
System		
Hardware platform	Standard	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz	
RAM	4 GB	
FLASH	32 GB eMMC	
Display		
Size diagonal	7" diagonal	10.1" diagonal
Resolution	800x480 pixels	1024x600 pixels
Backlight	LED Backlight	
Backlight life time	50000 hours	
Backlight brightness	500 cd/m ²	
Backlight dimming	Industrial Dimming	
Display type	TFT-LCD with LED backlight	
Serial communication		
Number of serial ports	1 Port 9pin DSUB	
Serial port 1	RS 232 (RTS/CTS)	
Serial port 2	RS 422/485	RS 232/RS 422/RS 485
Serial port 3	RS 485/CAN	
Ethernet communication		
Number of Ethernet ports	2	
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)	
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)	
Expansion interface		
SD card	1 x SD card	
USB	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental		
Operating temperature	-10°C to 60°C	
Storage temperature	-20°C to 70°C	
Shock	15g, half-sine, 11ms according to IEC60068-2-27	
Vibration	1g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP65	
Humidity	5% – 85% non-condensed @25°C	
Altitude (max)	< 3000m	



	X3 pro 12	X3 pro 15	X3 pro 21 P
General description			
Part number	640000215	640000315	640009515
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	340 x 242 x 70 mm	410 x 286 x 74 mm	556 x 347 x 78 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	324 x 226 mm	394 x 270 mm	539 x 331 mm
Weight	2.7 kg	3.7 kg	6.4 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 13W / max. 20W	typ- 21W / max. 26W	typ- 24W / max. 28W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	Standard		P**
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	12.1" diagonal	15.4" diagonal	21.5" diagonal
Resolution	1280x800 pixels	1280x800 pixels	1920x1080 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	400 cd/m ²	450 cd/m ²	300 cd/m ²
Backlight dimming	Industrial Dimming		
Display type	TFT-LCD with LED backlight		
Serial communication			
Number of serial ports	1 Port 9pin DSUB		
Serial port 1	RS 232 (RTS/CTS)		
Serial port 2	RS 232/RS 422/RS 485		
Serial port 3	RS 485/CAN		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-10°C to 60°C		
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

• P: Plus 版本，支援額外功能，例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。
 ** 請參閱產品資料部份了解實際支援的功能。

X3 pro web - Versions bundled with WebIQ software



	X3 pro 7 web WebIQ	X3 pro 10 web WebIQ	X3 pro 15 web WebIQ
General description			
Part number	110-0001	110-0002	110-0003
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm	410 x 286 x 74 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	189 x 128 mm	275 x 177 mm	394 x 270 mm
Weight	1.2 kg	1.9 kg	3.7 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 8W / max. 12W	typ- 12W / max. 18W	typ- 21W / max. 26W
Input fuse	Internal DC fuse, 3.15 AT	Internal DC fuse, 4 AT	
System			
Hardware platform	P**		
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Cybersecurity	Hardware cybersecurity design based on IEC 62443-4-2		
Display			
Size diagonal	7" diagonal	10.1" diagonal	15.4" diagonal
Resolution	800x480 pixels	1024x600 pixels	1280x800 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	500 cd/m ²		450 cd/m ²
Backlight dimming	Industrial Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental			
Operating temperature	-10°C to 60°C		
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

* P: Plus 版本, 支援額外功能, 例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

** 請參閱產品資料部份了解實際支援的功能。

X3 pro web - Stand alone versions



	X3 pro 7 web	X3 pro 10 web	X3 pro 15 web
General description			
Part number	630023515	630023615	640020615
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm	410 x 286 x 74 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	189 x 128 mm	275 x 177 mm	394 x 270 mm
Weight	1.2 kg	1.9 kg	3.7 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 8W / max. 12W	typ- 12W / max. 18W	typ- 21W / max. 26W
Input fuse	Internal DC fuse, 3.15 AT	Internal DC fuse, 4 AT	
System			
Hardware platform	Standard		
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Cybersecurity	Cybersecurity design based on IEC 62443-4-2		
Display			
Size diagonal	7" diagonal	10.1" diagonal	15.4" diagonal
Resolution	800x480 pixels	1024x600 pixels	1280x800 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	500 cd/m ²		450 cd/m ²
Backlight dimming	Industrial Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental			
Operating temperature	-10°C to 60°C		
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

* P: Plus 版本, 支援額外功能, 例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

** 請參閱產品資料部份了解實際支援的功能。

X3 marine with iX runtime



	X3 marine 7	X3 marine 10
General description		
Part number	630002515	630000615
Warranty	2 year	
Certifications		
General	CE, FCC, KCC	
Marine	DNV, ABS, LR, BV, NK, CCS, KR	
Safety	UL 61010-2-201	
Mechanical		
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm
Mounting option	Panel Mount / VESA 75x75	
Number of touches	1million finger touch operations	
Touch type	Resistive	
Cut-out size	189 x 128 mm	275 x 177 mm
Weight	1.2 kg	1.9 kg
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.	
Power consumption (max)	typ- 9W / max. 16W	typ- 12W / max. 18W
Input fuse	Internal DC fuse, 4 AT	Internal DC fuse, 4 AT
System		
Hardware platform	Standard	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz	i.MX 8M Plus Quad Cortex®-A53 1.6GHz
RAM	4 GB	4 GB
FLASH	32 GB eMMC	32 GB eMMC
Display		
Size diagonal	7" diagonal	10.1" diagonal
Resolution	800x480 pixels	1024x600 pixels
Backlight	LED Backlight	
Backlight life time	50000 hours	
Backlight brightness	500 cd/m ²	
Backlight dimming	Marine Wide Dimming	
Display type	TFT-LCD with LED backlight	
Serial communication		
Number of serial ports	1 Port 9pin DSUB	
Serial port 1	RS 232 (RTS/CTS)	
Serial port 2	RS 422/485	
Serial port 3	RS 485/CAN	
Ethernet communication		
Number of Ethernet ports	2	
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)	
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)	
Expansion interface		
SD card	1 x SD card	
USB	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental		
Operating temperature	-10°C to 60°C	
Storage temperature	-20°C to 70°C	
Shock	15g, half-sine, 11ms according to IEC60068-2-27	
Vibration	1g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP65	
Humidity	5% – 85% non-condensed @25°C	
Altitude (max)	< 3000m	



	X3 marine 12	X3 marine 15 P	X3 marine 21 P
General description			
Part number	640000715	640003315	640002415
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Marine	DNV, ABS, LR, BV, NK, CCS, KR		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	340 x 242 x 70 mm	410 x 286 x 74 mm	556 x 347 x 78 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	324 x 226 mm	394 x 270 mm	539 x 331 mm
Weight	2.7 kg	3.7 kg	6.4 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 13W / max. 20W	typ- 21W / max. 26W	typ- 24W / max. 28W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	Standard	p**	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	12.1" diagonal	15.4" diagonal	21.5" diagonal
Resolution	1280x800 pixels	1280x800 pixels	1920x1080 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	400 cd/m ²	450 cd/m ²	300 cd/m ²
Backlight dimming	Marine Wide Dimming		
Display type	TFT-LCD with LED backlight		
Serial communication			
Number of serial ports	1 Port 9pin DSUB	2 Port 9pin DSUB	
Serial port 1	RS 232 (RTS/CTS)		
Serial port 2	RS 422/485	RS 422/RS 485/CAN	
Serial port 3	RS 485/CAN		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-10°C to 60°C		-10°C to 50°C
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

• P: Plus 版本，支援額外功能，例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

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X3 marine web bundled with WebIQ



	X3 marine 7 web WebIQ	X3 marine 10 web WebIQ
General description		
Part number	110-0004	110-0005
Warranty	2 year	
Certifications		
General	CE, FCC, KCC	
Marine	DNV, ABS, LR, BV, NK, CCS, KR	
Safety	UL 61010-2-201	
Mechanical		
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm
Mounting option	Panel Mount / VESA 75x75	
Number of touches	1million finger touch operations	
Touch type	Resistive	
Cut-out size	189 x 128 mm	275 x 177 mm
Weight	1.2 kg	1.9 kg
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.	
Power consumption (max)	typ- 9W / max. 16W	typ- 12W / max. 18W
Input fuse	Internal DC fuse, 4 AT	Internal DC fuse, 4 AT
System		
Hardware platform	Standard	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz	
RAM	4 GB	
FLASH	32 GB eMMC	
Display		
Size diagonal	7" diagonal	10.1" diagonal
Resolution	800x480 pixels	1024x600 pixels
Backlight	LED Backlight	
Backlight life time	50000 hours	
Backlight brightness	500 cd/m ²	
Backlight dimming	Marine Wide Dimming	
Display type	TFT-LCD with LED backlight	
Ethernet communication		
Number of Ethernet ports	2	
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)	
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)	
Expansion interface		
SD card	1 x SD card	
USB	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental		
Operating temperature	-10°C to 60°C	
Storage temperature	-20°C to 70°C	
Shock	15g, half-sine, 11ms according to IEC60068-2-27	
Vibration	1g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP65	
Humidity	5% – 85% non-condensed @25°C	
Altitude (max)	< 3000m	



	X3 marine 12 web WebIQ	X3 marine 15 web P WebIQ	X3 marine 21 web P WebIQ
General description			
Part number	110-0006	110-0007	110-0008
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Marine	DNV, ABS, LR, BV, NK, CCS, KR		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	340 x 242 x 70 mm	410 x 286 x 74 mm	556 x 347 x 78 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	324 x 226 mm	394 x 270 mm	539 x 331 mm
Weight	2.7 kg	3.7 kg	6.4 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 13W / max. 20W	typ- 21W / max. 26W	typ- 24W / max. 28W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	Standard	P**	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	12.1" diagonal	15.4" diagonal	21.5" diagonal
Resolution	1280x800 pixels		1920x1080 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	400 cd/m ²	450 cd/m ²	300 cd/m ²
Backlight dimming	Marine Wide Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-10°C to 60°C		-10°C to 50°C
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

• P: Plus 版本，支援額外功能，例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

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X3 marine web - Stand alone versions



	X3 marine 7 web	X3 marine 10 web
General description		
Part number	630001215	630001715
Warranty	2 year	
Certifications		
General	CE, FCC, KCC	
Marine	DNV, ABS, LR, BV, NK, CCS, KR	
Safety	UL 61010-2-201	
Mechanical		
Mechanical size	204 x 143 x 63 mm	292 x 194 x 66 mm
Mounting option	Panel Mount / VESA 75x75	
Number of touches	1million finger touch operations	
Touch type	Resistive	
Cut-out size	189 x 128 mm	275 x 177 mm
Weight	1.2 kg	1.9 kg
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.	
Power consumption (max)	typ- 9W / max. 16W	typ- 12W / max. 18W
Input fuse	Internal DC fuse, 4 AT	
System		
Hardware platform	Standard	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz	
RAM	4 GB	
FLASH	32 GB eMMC	
Display		
Size diagonal	7" diagonal	10.1" diagonal
Resolution	800x480 pixels	1024x600 pixels
Backlight	LED Backlight	
Backlight life time	50000 hours	
Backlight brightness	500 cd/m ²	
Backlight dimming	Marine Wide Dimming	
Display type	TFT-LCD with LED backlight	
Ethernet communication		
Number of Ethernet ports	2	
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)	
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)	
Expansion interface		
SD card	1 x SD card	
USB	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental		
Operating temperature	-10°C to 60°C	
Storage temperature	-20°C to 70°C	
Shock	15g, half-sine, 11ms according to IEC60068-2-27	
Vibration	1g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP65	
Humidity	5% – 85% non-condensed @25°C	
Altitude (max)	< 3000m	



	X3 marine 12 web	X3 marine 15 web P	X3 marine 21 web P
General description			
Part number	640002815	640001815	640002915
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Marine	DNV, ABS, LR, BV, NK, CCS, KR		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	340 x 242 x 70 mm	410 x 286 x 74 mm	556 x 347 x 78 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	324 x 226 mm	394 x 270 mm	539 x 331 mm
Weight	2.7 kg	3.7 kg	6.4 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 13W / max. 20W	typ- 21W / max. 26W	typ- 24W / max. 28W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	Standard	P**	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	12.1" diagonal	15.4" diagonal	21.5" diagonal
Resolution	1280x800 pixels		1920x1080 pixels
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	400 cd/m ²	450 cd/m ²	300 cd/m ²
Backlight dimming	Marine Wide Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-10°C to 60°C		-10°C to 50°C
Storage temperature	-20°C to 70°C		
Shock	15g, half-sine, 11ms according to IEC60068-2-27		
Vibration	1g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP65		
Humidity	5% – 85% non-condensed @25°C		
Altitude (max)	< 3000m		

• P: Plus 版本，支援額外功能，例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

** 請參閱產品資料部份了解實際支援的功能。

X3 extreme with iX runtime



	X3 extreme 7 P	X3 extreme 7 P HB
General description		
Part number	640013915	640014115
Warranty	2 year	
Certifications		
General	CE, FCC, KCC	
Hazardous	UL C1D2, ATEX (Zone2)	UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)
Marine	DNV, ABS, LR, BV, NK, CCS, KR	
Safety	UL 61010-2-201	
Mechanical		
Mechanical size	204 x 143 x 63 mm	
Mounting option	Panel Mount / VESA 75x75	
Number of touches	1million finger touch operations	
Touch type	Resistive	
Cut-out size	189 x 128 mm	
Weight	1.2 kg	
Housing material	Powder-coated aluminum, Black	
Power		
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.	
Power consumption (max)	typ- 9W / max. 16W	typ- 10W / max. 18W
Input fuse	Internal DC fuse, 4 AT	
System		
Hardware platform	P**	
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz	
RAM	4 GB	
FLASH	32 GB eMMC	
Display		
Size diagonal	7" diagonal	
Resolution	800x480 pixels	
Backlight	LED Backlight	
Backlight life time	50000 hours	
Backlight brightness	500 cd/m ²	1000 cd/m ²
Backlight dimming	Marine Wide Dimming	
Display type	TFT-LCD with LED backlight	
Serial communication		
Number of serial ports	2 Port 9pin DSUB	
Serial port 1	RS 232 (RTS/CTS)	
Serial port 2	RS 422/RS 485/CAN	
Serial port 3	RS 485/CAN	
Ethernet communication		
Number of Ethernet ports	2	
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)	
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)	
Expansion interface		
SD card	1 x SD card	
USB	1 x USB Host 3.0, 1 x USB Host 2.0	
Environmental		
Operating temperature	-30°C to 70°C	
Storage temperature	-30°C to 80°C	
Shock	40g, half-sine, 11ms according to IEC60068-2-27	
Vibration	4g, according to IEC 60068-2-6, Test Fc	
Sealing front	IP66	
Humidity	5% – 95% non-condensed @25°C	
Altitude (max)	< 3000m	



X3 extreme 12 P	X3 extreme 12 P HB	X3 extreme 15 P	X3 extreme 15 P HB
640014315	640014415	640014615	640014715
2 year			
CE, FCC, KCC			
UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)			
DNV, ABS, LR, BV, NK, CCS, KR			
UL 61010-2-201			
340 x 242 x 70 mm		410 x 286 x 74 mm	
Panel Mount / VESA 75x75			
1million finger touch operations			
Resistive			
324 x 226 mm		394 x 270 mm	
2.7 kg		3.7 kg	
Powder-coated aluminum, Black			
24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.			
typ- 13W / max. 20W	typ. 20W / max. 27W	typ- 21W / max. 26W	typ- 30W / max. 35W
Internal DC fuse, 4 AT			
P**			
i.MX 8M Plus Quad Cortex®-A53 1.6GHz			
4 GB			
32 GB eMMC			
12.1" diagonal		15.4" diagonal	
1280x800 pixels			
LED Backlight			
50000 hours			
400 cd/m ²	1000 cd/m ²	450 cd/m ²	1000 cd/m ²
Marine Wide Dimming			
TFT-LCD with LED backlight			
2 Port 9pin DSUB			
RS 232 (RTS/CTS)			
RS 422/RS 485/CAN			
RS 485/CAN			
2			
1x10/100/1000 Base-T (shielded RJ45)			
1x10/100/1000 Base-T (shielded RJ45)			
1 x SD card			
1 x USB Host 3.0, 1 x USB Host 2.0			
-30°C to 70°C			
-30°C to 80°C			
40g, half-sine, 11ms according to IEC60068-2-27			
4g, according to IEC 60068-2-6, Test Fc			
IP66			
5% – 95% non-condensed @25°C			
< 3000m			

• P: Plus 版本，支援額外功能，例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

• HB: 高亮度顯示器。

** 請參閱產品資料部份了解實際支援的功能。

X3 extreme web - Versions bundled with WebIQ software



	X3 extreme 7 web P HB WebIQ	X3 extreme 12 web P HB WebIQ	X3 extreme 15 web P HB WebIQ
General description			
Part number	110-0009	110-0010	110-0011
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Hazardous	UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)		
Marine	DNV, ABS, LR, BV, NK, CCS, KR		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	205 x 143 x 63 mm	341 x 242 x 70 mm	411 x 286 x 74 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	190 x 128 mm	325 x 226 mm	395 x 270 mm
Weight	1.2 kg	2.7 kg	3.7 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 10W / max. 18W	typ. 20W / max. 27W	typ- 30W / max. 35W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	P**		
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	7" diagonal	12.1" diagonal	15.4" diagonal
Resolution	800x480 pixels	1280x800 pixels	
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	1000 cd/m ²		
Backlight dimming	Marine Wide Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-30°C to 70°C		
Storage temperature	-30°C to 80°C		
Shock	40g, half-sine, 11ms according to IEC60068-2-27		
Vibration	4g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP66		
Humidity	5% – 95% non-condensed @25°C		
Altitude (max)	< 3000m		

• **P**: Plus 版本, 支援額外功能, 例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

• **HB**: 高亮度顯示器。

** 請參閱產品資料部份了解實際支援的功能。

X3 extreme web - Stand alone versions



	X3 extreme 7 web P HB	X3 extreme 12 web P HB	X3 extreme 15 web P HB
General description			
Part number	640020715	640020815	640020915
Warranty	2 year		
Certifications			
General	CE, FCC, KCC		
Hazardous	UL C1D2, ATEX (Zone2), ATEX (Zone22), IECEx (Zone2), IECEx (Zone22)		
Marine	DNV, ABS, LR, BV, NK, CCS, KR		
Safety	UL 61010-2-201		
Mechanical			
Mechanical size	204 x 143 x 63 mm	340 x 242 x 70 mm	410 x 286 x 74 mm
Mounting option	Panel Mount / VESA 75x75		
Number of touches	1million finger touch operations		
Touch type	Resistive		
Cut-out size	189 x 128 mm	324 x 226 mm	394 x 270 mm
Weight	1.2 kg	2.7 kg	3.7 kg
Housing material	Powder-coated aluminum, Black		
Power			
Input voltage	24 VDC (18 to 32 VDC) CE: The power supply must conform with the requirements according to IEC 60950 and IEC 61558-2-4. UL and cUL: The power supply must conform with the requirements for Class 2 power supplies.		
Power consumption (max)	typ- 10W / max. 18W	typ. 20W / max. 27W	typ- 30W / max. 35W
Input fuse	Internal DC fuse, 4 AT		
System			
Hardware platform	P**		
CPU	i.MX 8M Plus Quad Cortex®-A53 1.6GHz		
RAM	4 GB		
FLASH	32 GB eMMC		
Display			
Size diagonal	7" diagonal	12.1" diagonal	15.4" diagonal
Resolution	800x480 pixels	1280x800 pixels	
Backlight	LED Backlight		
Backlight life time	50000 hours		
Backlight brightness	1000 cd/m ²		
Backlight dimming	Marine Wide Dimming		
Display type	TFT-LCD with LED backlight		
Ethernet communication			
Number of Ethernet ports	2		
Ethernet port 1	1x10/100/1000 Base-T (shielded RJ45)		
Ethernet port 2	1x10/100/1000 Base-T (shielded RJ45)		
Expansion interface			
SD card	1 x SD card		
USB	1 x USB Host 3.0, 1 x USB Host 2.0		
Environmental			
Operating temperature	-30°C to 70°C		
Storage temperature	-30°C to 80°C		
Shock	40g, half-sine, 11ms according to IEC60068-2-27		
Vibration	4g, according to IEC 60068-2-6, Test Fc		
Sealing front	IP66		
Humidity	5% – 95% non-condensed @25°C		
Altitude (max)	< 3000m		

• **P**: Plus 版本, 支援額外功能, 例如隔離式 COM 埠。CAN bus 可能會在未來軟體更新中提供支援。

• **HB**: 高亮度顯示器。

** 請參閱產品資料部份了解實際支援的功能。

關於北爾電子

北爾電子於1981年立基於北歐瑞典，是一家國際化且橫跨多個產業的創新型企業，為不同行業中的核心應用提供靈活的解決方案，將人和技術連結起來，使流程達到最佳化，我們提供：人機互動介面、自動化解決方案、數位化方案、顯示器解決方案和技術支援、工業物聯網領域以及工業用有線與無線解決方案，提供友善的軟體、硬體和服務，提供領先的解決方案，幫助客戶克服所面臨的挑戰。

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