



X3 marine 7

7" HMI with iX app

High performant marine HMI
Design optimized for use in marine environments
Cybersecurity design based on IEC 62443-4-2
7" 800 × 480 pixel (16:9) TFT-LCD with resistive touchscreen
-10°C to 60°C operating temperature
-20°C to 70°C storage temperature
CE, FCC, KCC, marine certifications

Facts

General description

Part number	630002515
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
	Panel Mount / VESA 75 x75
	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
Input fuse	Internal DC fuse, 4 AT
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
Resolution	800x480 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	500 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

Serial communication

Number of serial ports	1 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS485/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

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X3 marine 10

10" HMI with iX app

High performant marine HMI

Design optimized for use in marine environments

Cybersecurity design based on IEC 62443-4-2

10,1" 1024 x 600 pixel (16:9) TFT-LCD with resistive touchscreen

-10°C to 60°C operating temperature

-20°C to 70°C storage temperature

CE, FCC, KCC, marine certifications

Facts

General description

Part number	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	292 x 194 x 66 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	275 x 177 mm
Weight	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- 12W / max. 18W
Input fuse	Internal DC fuse, 4 AT

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	10.1" diagonal
Resolution	1024x600 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	500 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

Serial communication

Number of serial ports	1 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS485/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

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X3 marine 12

12" HMI with iX app

High performant marine HMI
 Design optimized for use in marine environments
 Cybersecurity design based on IEC 62443-4-2
 12,1" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen
 -10°C to 60°C operating temperature
 -20°C to 70°C storage temperature
 CE, FCC, KCC, marine certifications

Facts

General description

Part number	640000715
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
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	324 x 226 mm
Weight	2,7 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- 13W / max. 20W
Input fuse	Internal DC fuse, 4 AT

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	12,1" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	400 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

Serial communication

Number of serial ports	1 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/485
Serial port 3	RS485/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

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X3 marine 15 P

15" HMI with iX app

High performant marine HMI
Design optimized for use in marine environments
Cybersecurity design based on IEC 62443-4-2
15,4" 1280 × 800 pixel (16:10) TFT-LCD with resistive touchscreen
-10°C to 60°C operating temperature
-20°C to 70°C storage temperature
CE, FCC, KCC, marine certifications

Facts

General description

Part number	640003315
Warranty	2 year

Certifications

General	CE, FCC, KCC
Marine	DNV, ABS, LR, BV, NK, CCS, KR
Safety	UL 61010-2-201

Mechanical

Mechanical size	410 x 286 x 74 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	394 x 270 mm
Weight	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- 21W / max. 26W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
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	15.4" diagonal
Resolution	1280x800 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	450 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

Serial communication

Number of serial ports	2 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/RS485/CAN
Serial port 3	RS485/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

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X3 marine 21 P

21" HMI with iX app

High performant marine HMI
 Design optimized for use in marine environments
 Cybersecurity design based on IEC 62443-4-2
 21,5" 1920 × 1080 pixel (16:10) TFT-LCD with resistive touchscreen
 -10°C to 50°C operating temperature
 -20°C to 70°C storage temperature
 CE, FCC, KCC, marine certifications

Facts

General description

Part number	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	556 x 347 x 78 mm
	Panel Mount / VESA 75 x75
	1million finger touch operations
Touch type	Resistive
Cut-out size	539 x 331 mm
Weight	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- 24W / max. 28W
Input fuse	Internal DC fuse, 4 AT

Hardware platform	P
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	21,5" diagonal
Resolution	1920x1080 pixels
Backlight	LED Backlight
Backlight life time	50000 hours
Backlight brightness	300 cd/m2
Backlight dimming	Marine Wide Dimming
Display type	TFT-LCD with LED backlight
Display pixel error	Class I, according to ISO 9241-307

Serial communication

Number of serial ports	2 Port 9pin DSUB
Serial port 1	RS 232 (RTS/CTS)
Serial port 2	RS422/RS485/CAN
Serial port 3	RS485/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 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

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