

MOXA®

Reliable Networks ▲ Sincere Service

Built for the Extreme

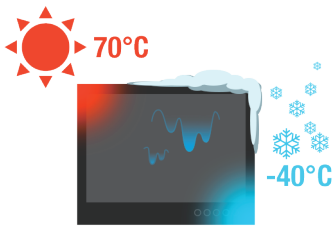
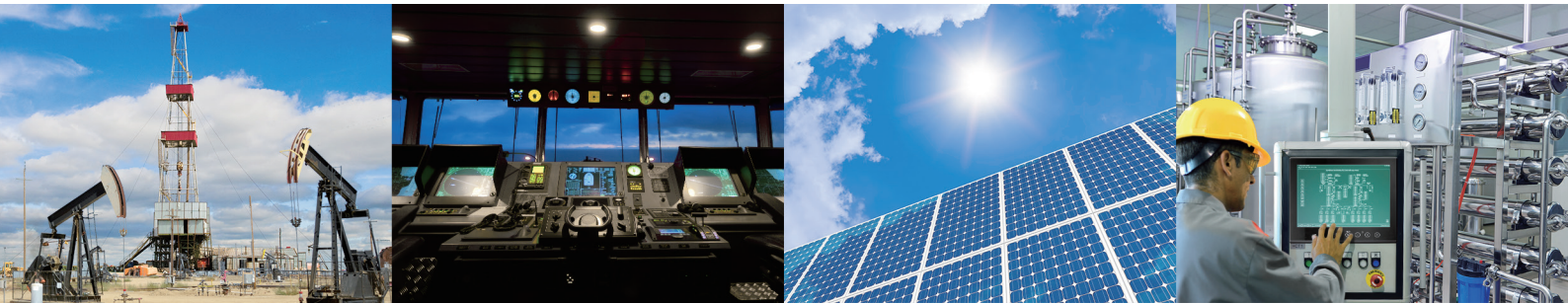
Rugged panel computers and displays
for tough environments



www.moxa.com

Continuous Process Visibility in Harsh and Hazardous Environments

Moxa's MPC Series panel computers and MD Series displays are optimized for outdoor HMI applications and hazardous environments such as O&G upstream applications, oil drilling control, marine bridge/automation, solar/wind power inverter control. They are also ideal for use in factories with gas or dust explosion concerns. To enable uninterrupted process visibility, Moxa's rugged panel computers and displays come in a fanless enclosure and are designed to operate in a wide temperature range of -40 to 70°C. They also feature sunlight-readable, glove-friendly multi-touch screens with true color display. Certified as per DNV GL, Class 1 Division 2, ATEX Zone 2, and IECEx Zone 2 standards, Moxa's panel computers and displays are the perfect choice for your critical industrial HMI applications.



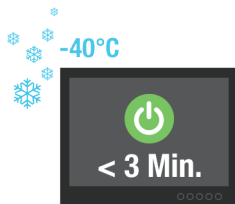
Wide Operating Temperature Range

Packed in a rugged, fanless enclosure, Moxa's MPC Series and MD Series are designed to operate in temperatures between -40 to 70°C.



Sunlight-Readable 1000-Nit Display

Featuring sunlight-readable displays, Moxa's HMI panels provide an excellent user experience for outdoor applications.



Fast Boot-Up at Sub-Zero Temperatures

At -40°C temperatures, Moxa's MPC Series can boot up in less than 3 minutes without requiring a heater.



DNV GL, CID2, ATEX / IECEx Zone 2 Certified

Moxa's industrial panel computers and displays are certified for applications in marine and oil and gas.

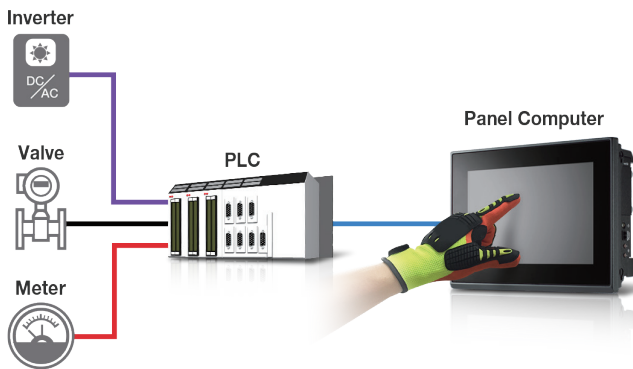
Rugged HMI Panels for Harsh and Hazardous Applications



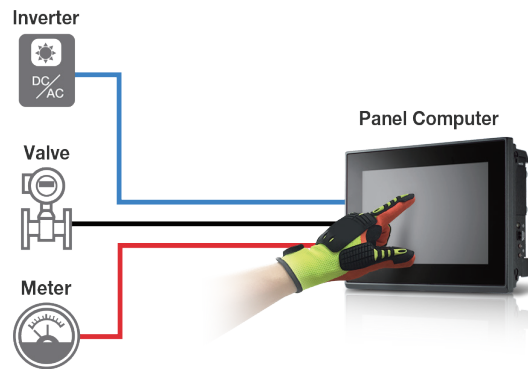
Moxa's extensive experience in providing HMI solutions enable us to offer panel computers that work smoothly with various SCADA software and applications such as:

- WinCC
- Factory Talk View
- Wonderware
- TwinCAT
- PcVue
- Ignition
- FreeSCADA
- Mango

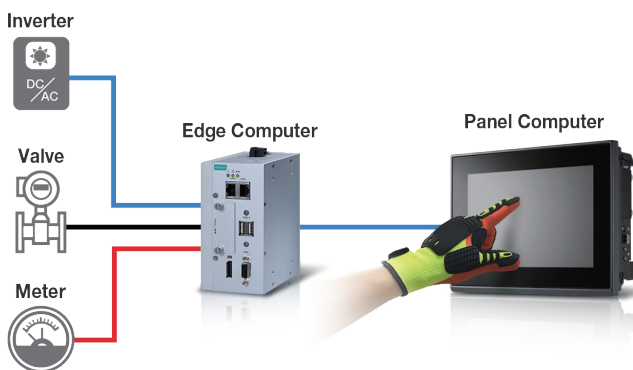
Application 1: Device control using a PLC



Application 2: Device control using Moxa's panel computer

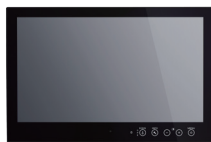
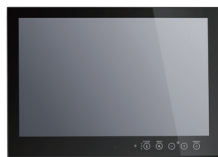


Application 3: Device control using Moxa's edge computer



	Ethernet
	PROFIBUS
	Serial
	I/O

Panel Computers



		MPC-2260 Series	MPC-2240 Series	MPC-2190 Series	MPC-2150 Series
Screen	Panel Size	26 inches (16 : 10)	24 inches (16 : 9)	19 inches (5 : 4)	15 inches (4 : 3)
	Pixels	1920 x 1200	1920 x 1080	1280 x 1024	1020 x 768
	View Angles	176° / 176°	176° / 176°	176° / 176°	160° / 140°
	Brightness	300 nits	300 nits	300 nits	1000 nits
	Touch screen	-	Capacitive (optional)	Capacitive (optional)	Capacitive (optional)
Computing System	CPU	Intel® Core™ i7-3517UE / Celeron 1047UE	Intel® Core™ i7-3517UE / Celeron 1047UE	Intel® Core™ i7-3517UE / Celeron 1047UE	Intel® Core™ i7-3517UE / Celeron 1047UE
	System Memory	4 GB preinstalled	4 GB preinstalled	4 GB preinstalled	4 GB preinstalled
	Storage Expansion Slots	2 x SSD	2 x SSD	1 x SSD (Internal)	1 x SSD, 1 x CFast
	USB Ports	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0	4 x USB 2.0
	LAN Ports	2 x RJ-45	2 x RJ-45	2 x RJ-45	2 x RJ-45
	Serial Ports	2 x RS-232/422/485 (DB9)	2 x RS-232/422/485 (DB9)	2 x RS-232/422/485 (DB9)	2 x RS-232/422/485 (DB9)
	NMEA 0183 Ports	8 (Terminal Block)	8 (Terminal Block)	4 (Terminal Block)	-
	Video Output	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA
	Power Input	100 to 240 VAC, 24 VDC	100 to 240 VAC, 24 VDC	100 to 240 VAC, 24 VDC	100 to 240 VAC, 12/24 VDC
Physical	Dimensions	621 x 440 x 90 mm (24.45 x 17.48 x 3.57 in)	595 x 393 x 75 mm (23.43 x 15.47 x 2.95 in)	429 x 387 x 75 mm (16.89 x 15.24 x 2.95 in)	356 x 315 x 77.2 mm (14.02 x 12.40 x 3.04 in)
	Mounting Method	VESA, Desktop, Panel	VESA, Desktop, Panel	VESA, Desktop, Panel	VESA, Panel
	Operating Temperature	-15 to 55°C	-15 to 55°C	-15 to 55°C	-40 to 70°C
	IP Rating	IP54 (Front); IP22 (Rear)	IP54 (Front); IP22 (Rear)	IP54 (Front); IP22 (Rear)	IP66 (Front); IP22 (Rear)
Regulatory	EMC	UL, FCC, CE, CCC	UL, FCC, CE, CCC	UL, FCC, CE, CCC	UL, FCC, CE
	Hazardous Certifications	-	-	-	Class 1 Division 2, ATEX Zone 2, IECEx Zone 2
	Marine Certifications	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, EU-RO-MR



		MPC-2120 Series	MPC-2070 Series	EXPC-1519 Series
Screen	Panel Size	12 inches (4:3)	7 inches (16:9)	19 inches (5:4)
	Pixels	1024 x 768	800 x 480	1280 x 1024
	View Angles	160° / 140°	140° / 120°	170° / 160°
	Brightness	350 / 1000 nits	350 / 1000 nits	1000 nits
	Touch screen	Capacitive	Capacitive	Capacitive
Computing System	CPU	Intel Atom® E3826 / E3845	Intel Atom® E3826	Intel® Core™ i7-3555LE / Celeron 1047UE
	System Memory	4 GB preinstalled	4 GB preinstalled	4 GB preinstalled
	Storage Expansion Slots	1 x CFast, 1 x SD	1 x CFast, 1 x SD	1 x SSD, 1 x CFast
	USB Ports	2 x USB 2.0	2 x USB 2.0	Up to 4 USB 2.0
	LAN Ports	2 x RJ-45	2 x RJ-45	2 x RJ-45, 2 x Fiber ST
	Serial Ports	2 x RS-232/422/485 (DB9)	2 x RS-232/422/485 (DB9)	2 x RS-232/422/485
	NMEA 0183 Ports	-	-	-
	Video Output	-	-	1 x VGA
	Power Input	12/24 VDC	12/24 VDC	100 to 240 VAC, 24 VDC
Physical	Dimensions	306 x 245 x 64 mm (12 x 9.6 x 2.5 in)	200 x 140 x 45 mm (7.9 x 5.5 x 1.8 in)	483 x 408 x 99.5 mm (19.02 x 16.06 x 3.92 in)
	Mounting Method	VESA, Panel, DIN rail	VESA, Panel, DIN rail	VESA, Desktop, Panel, Wall, Yoke
	Operating Temperature	-40 to 70°C	-40 to 70°C	-40 to 70°C
	IP Rating	IP66 (Front) ; IP22 (Rear)	IP66 (Front) ; IP22 (Rear)	IP66 (Completely Sealed)
Regulatory	EMC	UL, FCC, CE	UL, FCC, CE	UL, FCC, CE
	Hazardous Certifications	Class 1 Division 2, ATEX Zone 2, IECEx Zone 2*	Class 1 Division 2, ATEX Zone 2, IECEx Zone 2*	Class 1 Division 2, ATEX Zone 2, IECEx Zone 2
	Marine Certifications	DNV GL, EU-RO-MR*	DNV GL, EU-RO-MR*	-

*Certification process is underway. Please contact a Moxa sales representative for details.

Displays



		MD-226 Series	MD-224 Series	MD-219 Series	MD-215 Series
Screen	Panel Size	26 inches (16 : 10)	24 inches (16 : 9)	19 inches (5 : 4)	15 inches (4 : 3)
	Pixels	1920 x 1200	1920 x 1080	1280 x 1024	1024 x 768
	View Angles	176° / 176°	176° / 176°	176° / 176°	160° / 140°
	Brightness	300 nits	300 / 1000 nits	300 / 1000 nits	1000 nits
	Touch Screen	-	Capacitive (Option)	Capacitive (Option)	Capacitive (Option)
System	Serial Ports	1 x RS-232 (DB9), 1 x RS-422/485 (Terminal Block)	1 x RS-232 (DB9), 1 x RS-422/485 (Terminal Block)	1 x RS-232 (DB9), 1 x RS-422/485 (Terminal Block)	1 x RS-232 (DB9), 1 x RS-422/485 (Terminal Block)
	Video Input	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA	1 x DVI-D, 1 x VGA
	Buzzer	Yes	Yes	Yes	Yes
	Power Input	100 to 240 VAC 24 VDC	100 to 240 VAC 24 VDC	100 to 240 VAC 24 VDC	100 to 240 VAC 12/24 VDC
Physical	Dimensions	621 x 440 x 90 mm (24.45 x 17.48 x 3.57 in)	595 x 393 x 75 mm (23.43 x 15.47 x 2.95 in)	429 x 387 x 75 mm (16.89 x 15.24 x 2.95 in)	356 x 315 x 77.2 mm (14.02 x 12.40 x 3.04 in)
	Mounting Method	VESA, Desktop, Panel	VESA, Desktop, Panel	VESA, Desktop, Panel	VESA, Panel
	Operating Temperature	-15 to 55°C	-15 to 55°C	-15 to 55°C	-40 to 70°C
	IP Rating	IP54 (Front) ; IP22 (Rear)	IP54 (Front) ; IP22 (Rear)	IP54 (Front) ; IP22 (Rear)	IP66 (Front) ; IP22 (Rear)
Regulatory	EMC	UL, FCC, CE, CCC	UL, FCC, CE, CCC	UL, FCC, CE, CCC	UL, FCC, CE
	Hazardous Certifications	-	Class 1 Division 2	Class 1 Division 2	-
	Marine Certifications	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, ABS, CCS, EU-RO-MR	DNV GL, EU-RO-MR

Recommended Moxa Computers

Power Efficient and DIN-Rail Mountable



MC-1100
Zone 2 fanless computer with Intel Atom® E3800 CPU



V2201
In-vehicle fanless computer with Intel Atom® E3800 CPU

Wall Mountable



MC-7200-MP-T
Fanless wide-temperature computer with Intel® Core™ i7 / i3 / Celeron CPU



MC-7200-DC-CP-T
Compact, fanless computer with Intel® Core™ i7 / i3 / Celeron CPU



V2403
Fanless wide-temperature computer with Intel® Core™ i7 / i3 / Celeron CPU

Rack Mountable



DA-820
3U, IEC 61850 native PRP/HSR computer with Intel® Core™ i7 CPU



DA-720
2U, 14 gigabit Ethernet computers with Intel® Core™ i7 / i5 CPU



DA-681A
1U, IEC 61850-3 computer with Intel® Core™ Celeron 1047UE CPU



Reliable Networks ▲ Sincere Service

Industrial Certifications for Extreme Environments

Moxa's industrial panel computers and displays are designed in strict accordance with globally accepted standards for explosion protection in hazardous locations. Approved certifications include UL/cUL Class I Division 2, ATEX Zone 2, IECEx Zone 2, DNV GL, ABS, LR, NK, and CCS.



Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things. With over 30 years of industry experience, Moxa has connected more than 50 million devices worldwide and has a distribution and service network that reaches customers in more than 70 countries. Moxa delivers lasting business value by empowering industry with reliable networks and sincere service for industrial communications infrastructures.

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