

Harsh and hazardous area solutions

CROUSE-HINDS
SERIES

MTL GECMA Work Station Zone 2/22

A new generation built on experience



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Covering all your application needs

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Discover the MTL GECMA Zone 2/22 HMI

Welcome to the world of cutting-edge technology designed to enhance your operations in GMP compliant production facilities. Introducing the MTL GECMA Zone 2/22 HMI (Human Machine Interface): a powerful and robust solution specifically engineered to meet the demands of Zone 2/22 areas.

Unleashing the Power of Zone 2/22 HMI

Built-in security: The inclusion of Eaton's Cybersecurity Guideline provides an excellent starting level of protection against unauthorized access to the hardware and software. This protection can subsequently be extended and adapted to suit local requirements by the system administrator.

Safety: GECMA Zone 2/22 HMI is designed to operate reliably and safely in hazardous locations. It adheres to global industry standards and certifications, ensuring compliance with safety regulations and offering peace of mind for your operations.

Enhanced visualization: Featuring a high-resolution display, GECMA Zone 2/22 HMI provides operators with exceptional visibility in all lighting conditions. The intuitive, projected capacitive (multi-touch) screen interface enables seamless interaction and easy access to critical information, empowering operators to make informed decisions quickly.

Rugged durability: Built to withstand demanding environments, the GECMA Zone 2/22 HMI is engineered with robust materials and components. Designed to prevent the accumulation of fluids and easy cleaning, it is resistant to dust, water, temperature variations, and cleaning agents, making it ideal for pharmaceutical, chemical and petrochemical facilities, and other industrial settings where reliability is paramount.

Flexibility and scalability: The GECMA Zone 2/22 HMI offers a wide range of connectivity options, allowing seamless integration with various industrial control systems. With its modular design, you can expand its capabilities to meet your evolving operational needs, ensuring a future-proof investment.

Advanced functionality: Experience advanced features that optimize productivity and efficiency. The MTL GECMA Zone 2/22 HMI supports multi-touch gestures, multi-language interfaces, and numerous protocols.



Applications

The GECMA Zone 2/22 HMI is an ideal solution for a wide range of applications, including:

Chemical Processing
Enhance control and monitoring in hazardous chemical manufacturing facilities.



Wastewater Treatment
Optimize control and monitoring in hazardous wastewater treatment plants.



Power Generation
Enable efficient control and monitoring in power plants, including gas turbines, generators, and more.



Oil and Gas Industry
Improve safety and streamline operations on refineries, and processing plants.



Pharmaceutical Manufacturing
Ensure compliance and enhance productivity in pharmaceutical production areas.



Application

Panel PC

The Panel PCs in the GECMA Work Station Zone 2/22 series impress with an exceptional degree of openness and outstanding performance parameters.

The devices run on the Windows 10 Enterprise IoT LTSC operating system. This means they are compatible with a wide range of application software, like Distributed Control System, Manufacturing Execution System or any other software used to display and control processes. With an IP65 degree of protection, the devices are suitable for use in ambient temperatures ranging from 0 °C to +45 °C.

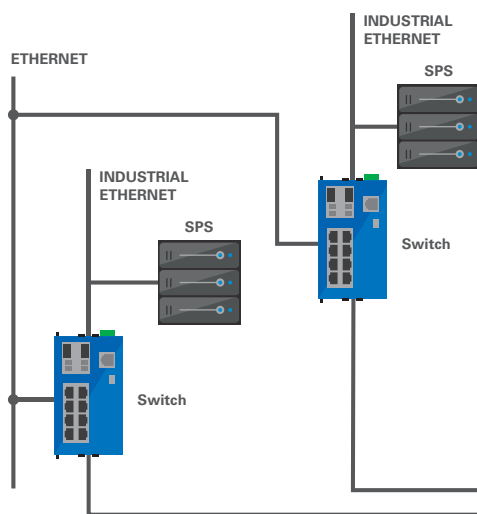
The efficient Panel PCs feature an Intel Atom E3950 quad-core CPU and ensure a high processing capacity as well as high-performance graphics. In addition to the two Ethernet and four USB interfaces, the devices are equipped with a configurable RS232/RS422/RS485 interface.

The 10.1", the 15.6" and the 21.5" display size ensure that our Panel PC can be tailored to the application and can be integrated into a machine or cabinet. The Panel PCs can also be offered as full systems in a stainless-steel housing including keyboard and pointing device with various mounting options.



MTL GECMA WS Zone 2/22 operating principle Panel PC

Standard



SAFE AREA

HAZARDOUS AREA

Application

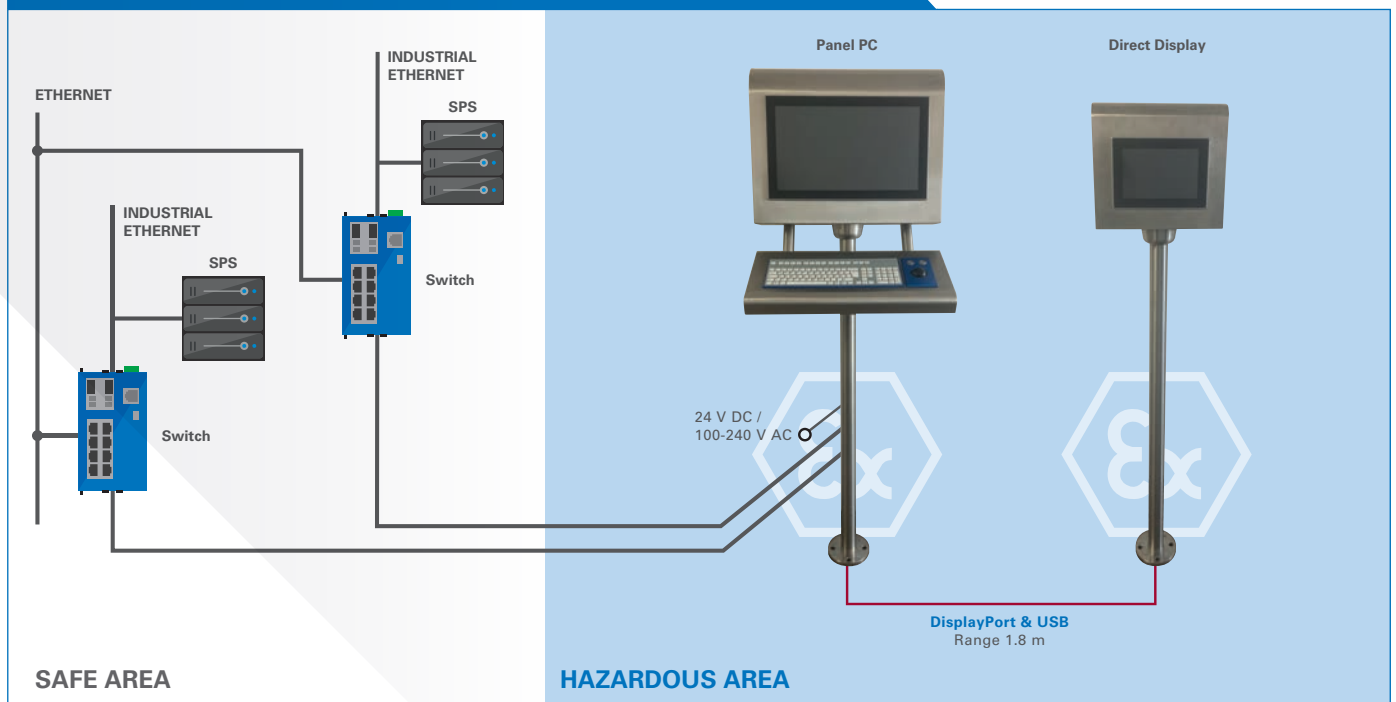
Panel PC & Direct Display

The Direct Display adds an additional screen to the Panel PC application and can be an important asset. The applications for this kind of extended display usually require an improved line of sight in complex use cases such as larger machines, where the operator needs to access the product from several sides while

having access to the visual data (e.g. tooling machines). This solution is also needed when additional data needs to be displayed on an extended display, such as access to the ERP system or just to show the SOPs while working through a step-by-step process. Also, the display can be mounted in landscape and portrait mode.



MTL GECMA WS Zone 2/22 operating principle Panel PC & Direct Display

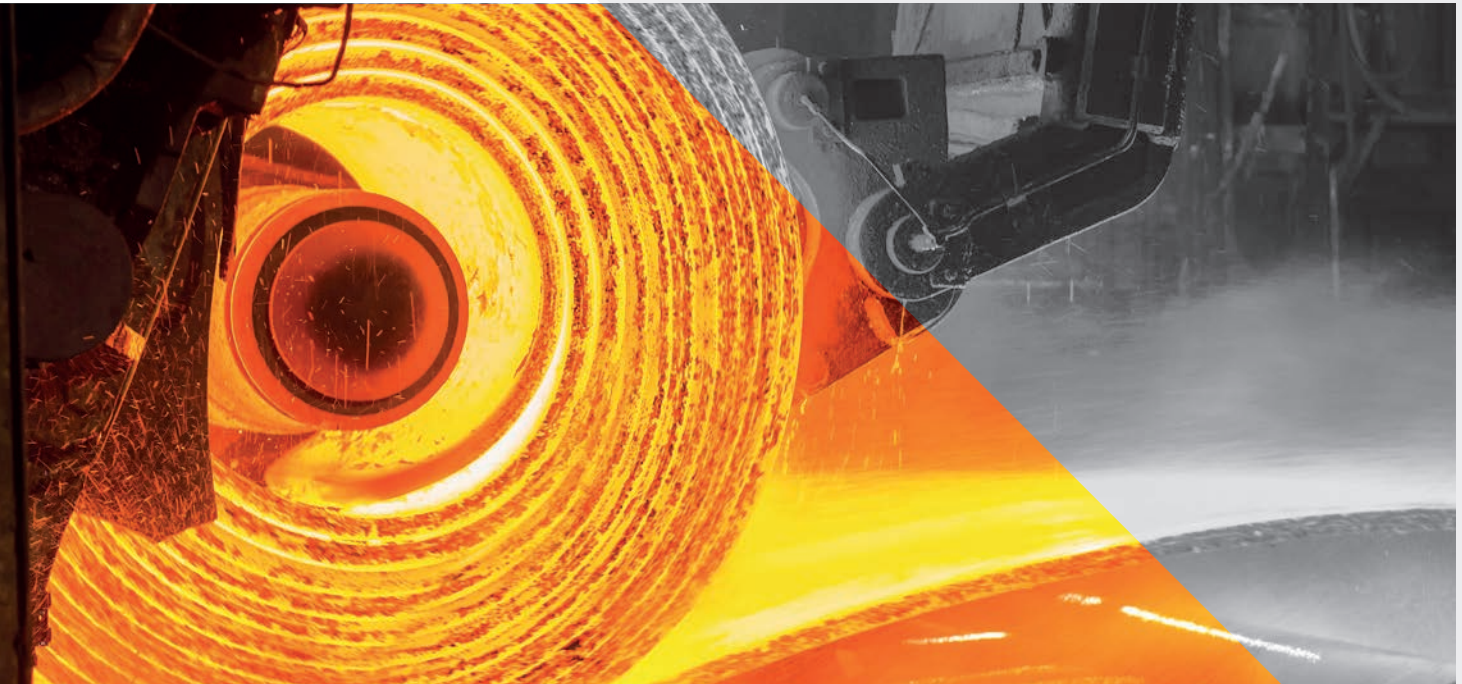


Application

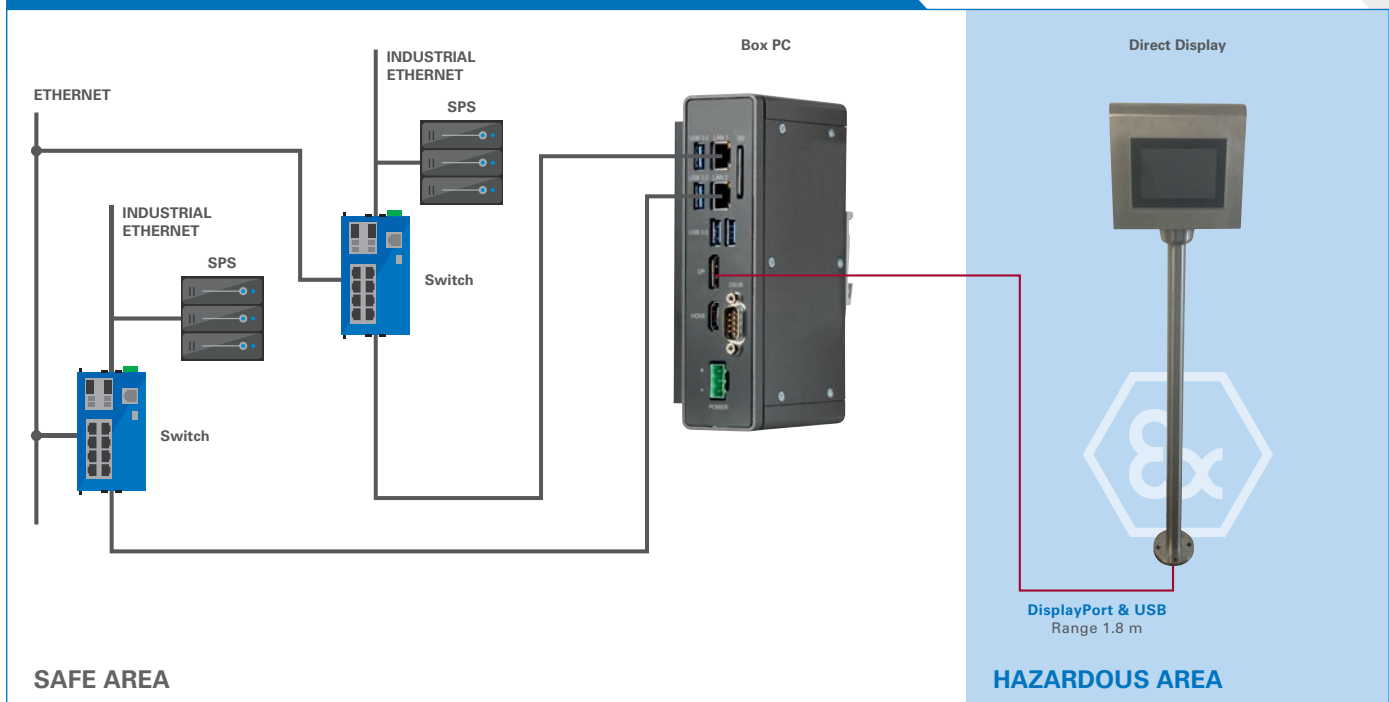
Box PC & Direct Display

The Direct Display can be connected to any local PC, whether that is a standard off-the-shelf office PC or a specific piece of hardware to go with the machine or process that needs to be visualized and controlled. The Direct Display comes with a projected capacitive (multi-touch) screen for on-screen data entry.

The Eaton Box PC offers the same hardware from the Panel PC as a separate DIN-rail or wall mounted piece of hardware to help you standardize your specific application across the production floor.



MTL GECMA WS Zone 2/22 operating principle Box PC & Direct Display



Application

Box PC & Remote Display

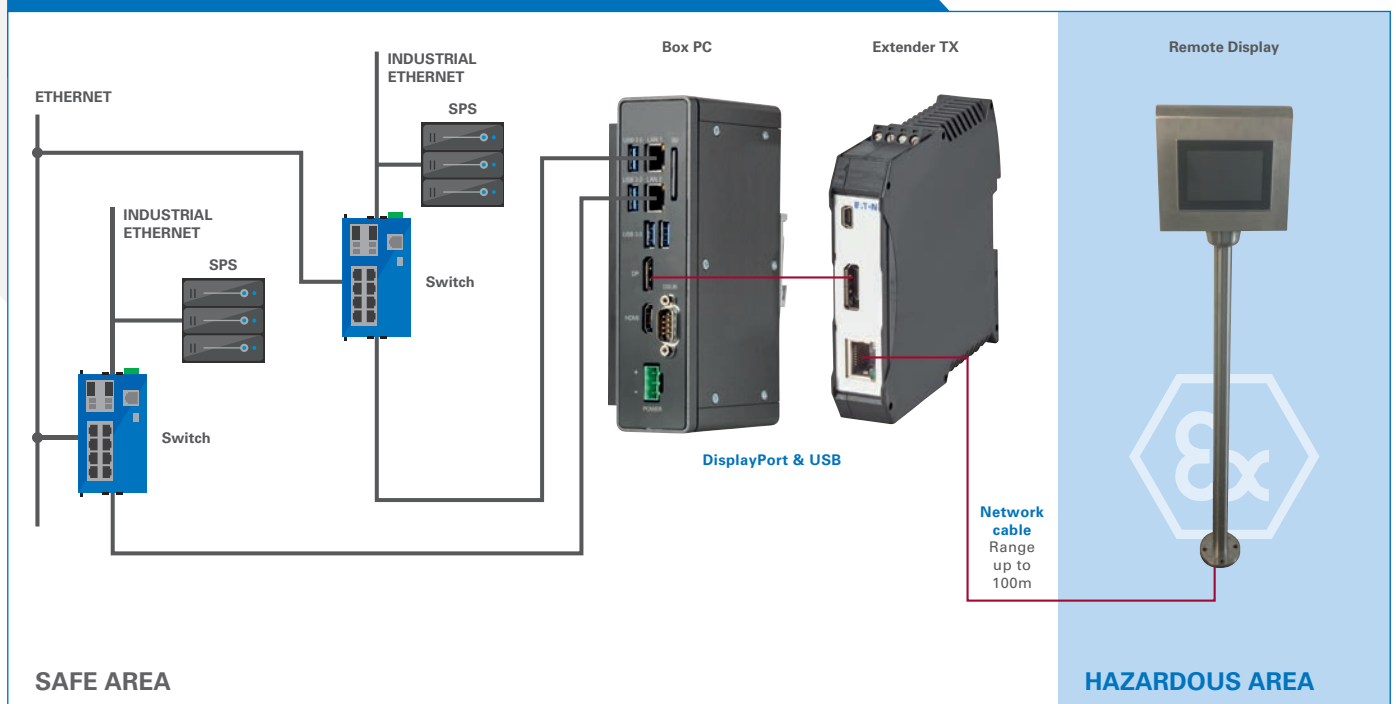
The Remote Display offers a projected capacitive (multi-touch) display for on-screen data entry. The display uses an integrated data transmission - the Remote Display can be connected through a proprietary data line back to the transmitter unit up to 1.8m away (see diagram on previous page). These Remote Display solutions can be found in applications where the physical distance between the HMI and the point of data display is too far for a standard

video/USB connection. You'll find these typically in multi-story control applications, such as loading bays for tank wagons or trucks.

Also, The Box PC and the Panel PC have two graphical outputs, so the number of Direct Displays and Remote Displays connected to the PC can vary.



MTL GECMA WS Zone 2/22 operating principle Box PC & Remote Display



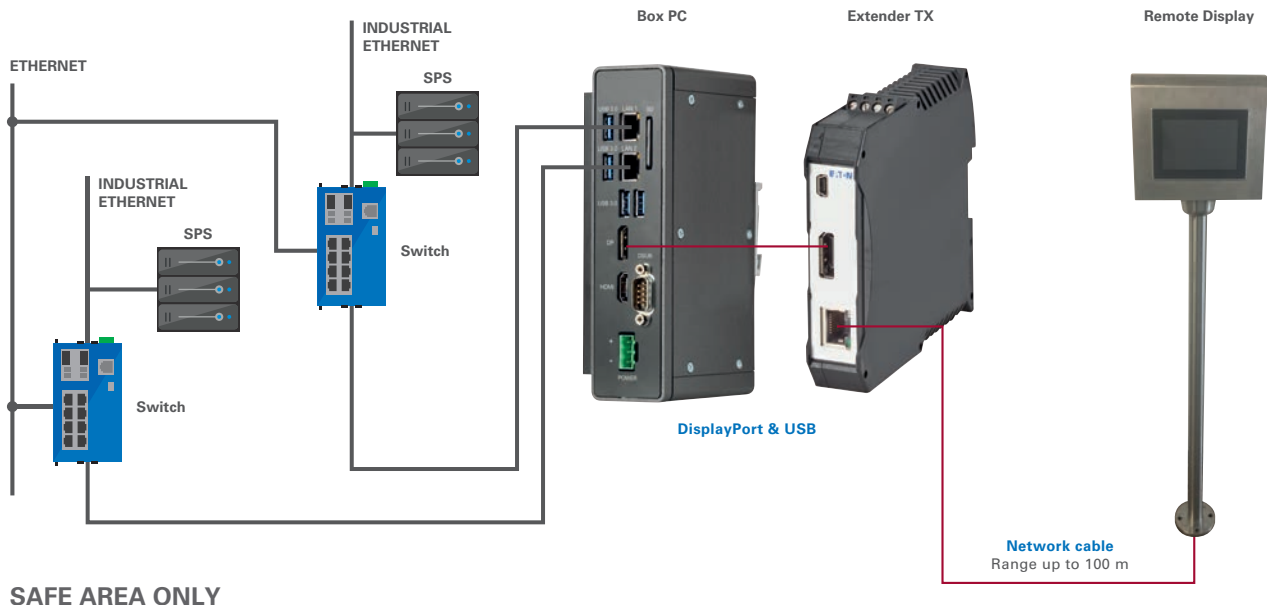
Application

Box PC, Panel PC & Remote Display application – SAFE AREA

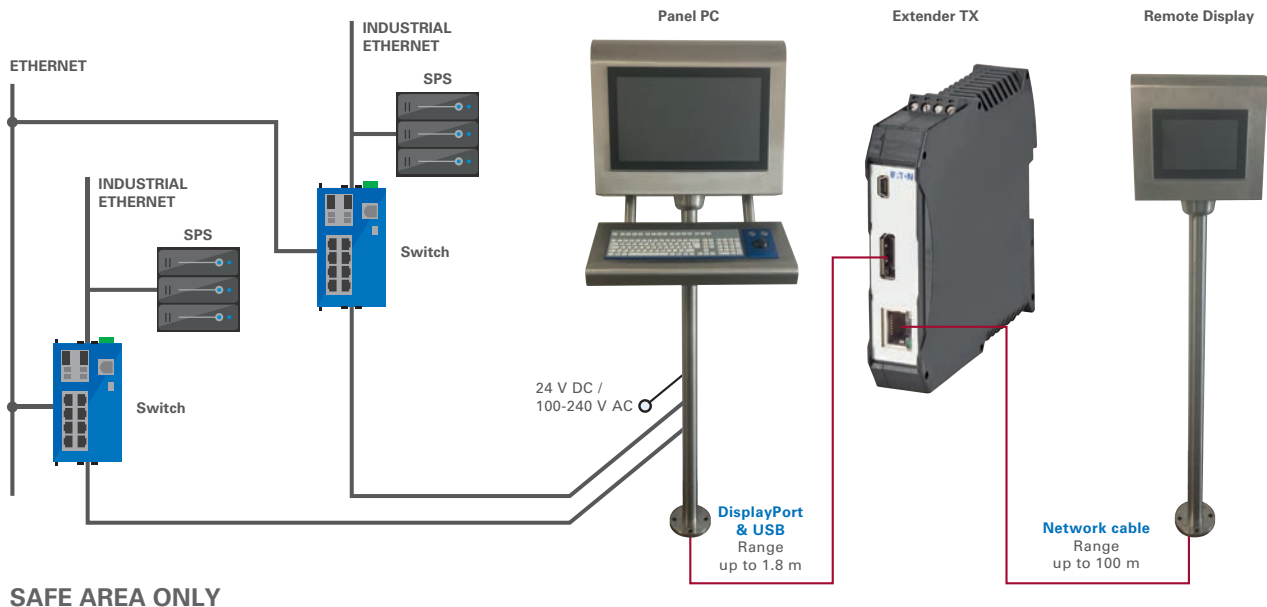
A normal Panel PC faces significant challenges in effectively managing heat and protecting itself from physical impacts. However, by utilizing a Box PC in conjunction with a Remote Display, these issues can be mitigated in a much more efficient manner.

The Box PC can be positioned away from the harsh conditions, ensuring optimal heat management and safeguarding against physical damage. The Remote Display excels at handling challenging environmental conditions and can be effortlessly replaced in the event of any physical harm, without the need to power down either the Box PC or Panel PC.

MTL GECMA WS Industrial operating principle Box PC & Remote Display



MTL GECMA WS Industrial operating principle Panel PC & Remote Display





Application

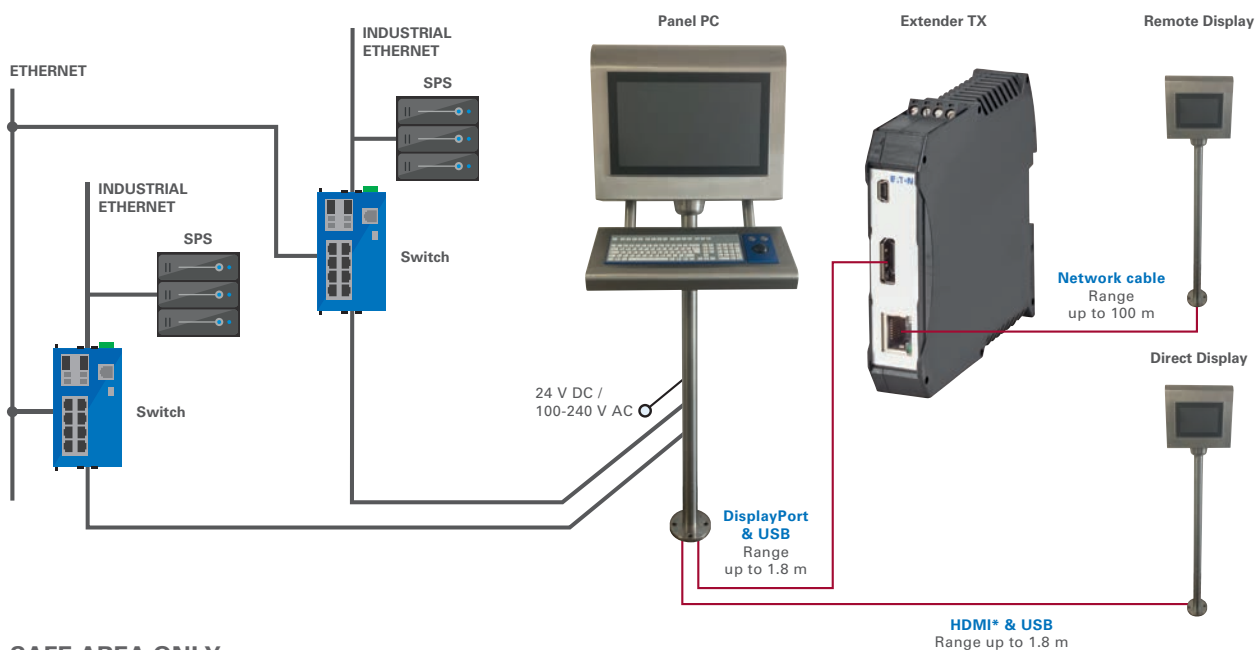
Panel PC & Multiple Displays

The Panel PC has the benefit of an integrated Display and two video signal outputs. This allows the Panel PC to either mirror or extend the Display information on up to two more displays up to 100m away each. This can be quite useful for applications in packaging lines where the physical distance exceeds standard video cable transmission distances.

With the integrated projected capacitive (multi-touch) screen the displays will not only show data, but also allow for on-screen data entry.



MTL GECMA WS Industrial operating principle Panel PC & Remote Display & Direct Display



*Requires an active converter

GECMA Work Station order codes

GECMA WS Zone 2/22/Industrial Series					
G	GECMA identifier				
Z	GECMA identifier				
Application					
2	Zone 2				
5	Zone 22				
6	Industrial				
Product Type					
D	Direct Display				
R	Remote Display				
P	Personal Computer				
Revision					
1					
Type					
C	Copper Data				
Z	None (Direct Display)				
Display size					
5	10" - 1280x800 (16:10)				
1	15" - 1366x768 (16:9)				
3	22" - 1920x1080 (16:9)				
Display type					
1	Standard PCT (Projected Capacitive Touch)				
Power supply					
D	24 VDC				
A	110-240 VAC				
Type of housing					
M	RD 130 (gas only)	RD - Rear door 130 deep bottom mount			
S	RDP 130 (gas only)	RDP - Rear door 130 deep with pult			
F	FD 185 (gas only)	FD - Front door 185 deep without pult			
V	FDP 185 (gas only)	FDP - Front door 185 deep with pult			
Y	DW (gas only)	DW - Direct wall 185 deep mounted without pult			
W	DWP (gas only)	DWP - Direct wall 185 deep mounted with pult			
C	RD 130	RD - Rear door 130 deep DUST bottom mount			
D	RDP 130	RDP - Rear door 130 deep DUST with pult			
X	ETO	ETO housing			
Z	None	No housing			
Housing Material (only if Type of housing is not Z)					
1	1.4301-240 - V2A (304)				
2	1.4404-240 - V4A (316L)				
4	1.4301-2R-polished (304)				
5	1.4404-2R-polished (316L)				
Mounting					
P	Pedestal - mounted				
E	Elbow - mounted				
Y	Customized mounting				
Keyboard					
N	None				
G	Standard Glass Keyboard (Zone 2/22)				
B	Standard Foil Keyboard (Ind only)				
D	Dust				
Language					
0	None				
E	English				
G	German				
F	French				
Pointing device					
0	None (only with touch and no housing)				
2	Touchpad (included)				
Hardware (Panel PC only)					
E	8GBRAM/64GBSSD				
Z	None (Remote Display & Direct Display)				
Operating system (Panel PC only)					
C	Win 10 / IoT / 64 Bit				
0	No Operating system (Remote Display & Direct Display)				

Additional Hardware

Extender Unit - for Remote Terminal Only

1	GEC-XP5-00-E01-A00	GWS Z2/IND Extender Unit - Copper Only
Box PC		
1	GEC-XP5-00-B01-A01	Box-PC, 8GB RAM, 64GB SSD, Win 10 IoT 64 Bit

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Our focus is on finding the right solution for every application. But decision makers demand more than just innovative products. They turn to Eaton for an unwavering commitment to personal support that makes customer success a top priority.

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