15" Wide Temperature All-in-One Panel-PC for Panel mount

General Description

The PANEL15 is specifically designed as front end interface for rugged, secure sensitive environments, where reliability and quality are key issues. The PANEL15 expands MPLs Panel-PC Family of compact, easy-to-integrate and multi-functional All-in-One solutions. The product is specifically designed and built for none standard environments. It combines a 15" display with excellent optical specifications, an optional touch screen, and a complete range of low power embedded CPU boards. All this comes within the footprint of a 15" LCD monitor, ready to mount into your cabinet.

PANEL15 Solution used in Maritime Environment

PANEL15 Highlights

The front of the Panel15 is IP65 protected with a stainless steel frame. On the back side, various PC interfaces are available for the user. Like all other MPL products the PANEL15 requires no fan regardless if a single-core Atom or a quad-core i7 is installed. The solution is easy customizable and expandable for basically all customer needs and requirements.
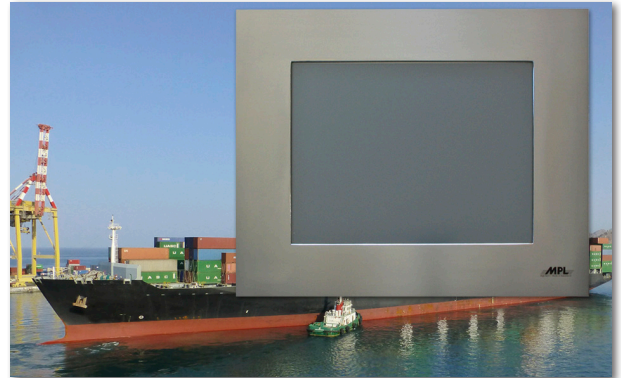
Key features are:
- Space saving, integrated, All-in-One solution
- Fanless design
- Up to IP65 protected (front)
- Stainless steel front panel
- Panel mounting
- Wide choice of processor (Intel Atom to i7)
- Optionally easy operation, navigation over touch screen
- Choice of various operating systems

PANEL15 used as HMI in Industrial Environment

The robust and IP65 protected PANEL15 is the perfect solution as man machine/front end interface for harsh applications like in transportation, maritime or for clean environments like in medicine, food industry. Further as space saving, fanless and noiseless system the PANEL15 is the ideal solution for cabinet applications in telecommunication, kiosk information systems and Internet access points.

All MPL products are fanless, shock and vibration proof, low power, rugged, and long-term* available. The perfect solution for a system to be used in rugged environments.
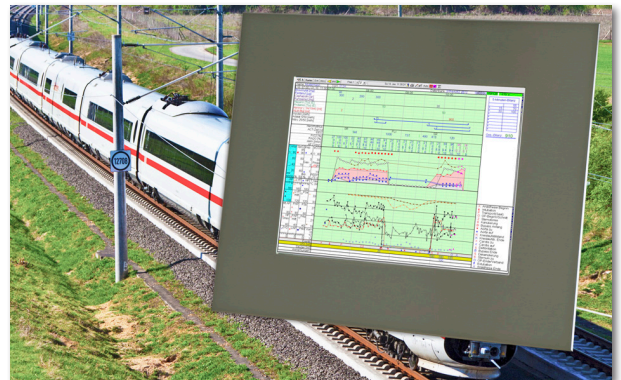*Typically 10 years or more, 20+ years repairable*

PANEL15 Solution used for Railway Application

All MPL products are 100% designed and manufactured in Switzerland.

MPL AG is an ISO9001 certified company

MPL
High-Tech • Made in Switzerland

Technical Features

CPU Boards / Motherboards

Use of our reliable, long-term available Embedded Computer Boards out of the PIP Family.
All boards are well equipped and offer the standard interfaces on board.

CPU	PIP30 Family up to Intel i7 quad-core or CEC10 Family up to Atom quad-core
Memory	Up to 16GB possible (depending on selected embedded CPU board)
Storage	Any SATA / mSATA drive can be used
I/Os	According the selected embedded CPU board
Expansion	mPCI, XMC, PMC, PCI, PCI-104 (according selected embedded CPU board)

LCD Characteristics

We are not aligned to a certain display type, therefore please ask us in case you have specific needs.
The below given values are from our used standard 15" LCD.

Display Size	15" TFT LCD
Resolution	XGA (1024x768 pixels), Aspect ratio 4:3
Color Depth	16.7M
Brightness	800 nits, optional up to 1600 nits
Contrast Ratio	700:1
Viewing Angle	horizontal 160° / vertical 160°
Backlight	LED – dimmable

Touch Screen (Optional)

Type	Resistive or capacitive touch screen
Surface	Hard coating, anti-glare treatment
Controller Resolution	1024 x 768
Controller Interface	USB, touch and mouse simultaneously possible!

Housing Characteristics

Front Panel	Stainless Steel
Mounting Options	Panel mount
Weight	Approximately 8.7 kg

Power

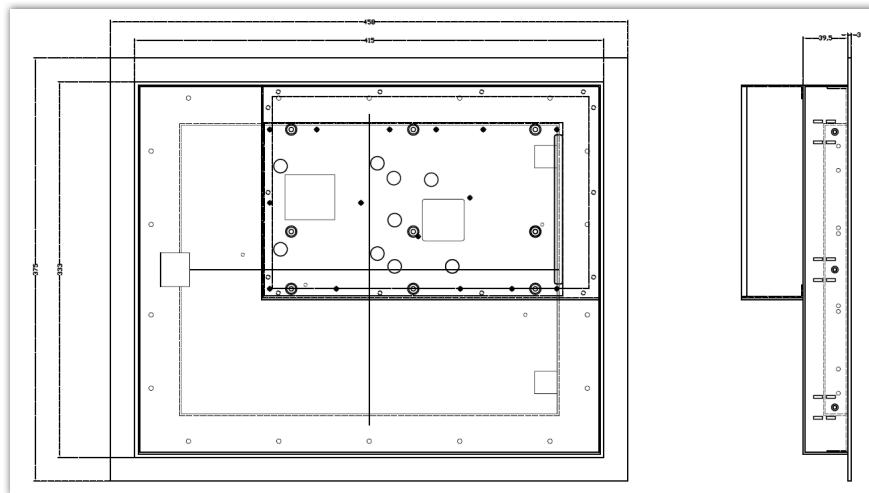|	
Power Supply	12VDC (11-32VDC optional), any other supply voltage (48VDC, 110VDC..) is possible too
Power Consumption	Display & Inverter typ. 12.7W, please add CPU board power consumption according data sheet

Environment

Operating Temperature	-20°C up to +60°C (-4°F to +140°F)
Storage Temperature	-40°C up to +85°C (-40°F to +185°F)
Humidity	10% - 90% non condensing
Protection Class	Front IP65 (back IP54), please talk to us about your needs

Standard Compliance

The PANEL15 is designed to meet or exceed the most common standards. Particular references are:

EMC	EN 55022, EN 55024, EN 61000, MIL-STD-461E
Shock & Vibration	EN 60068
Environmental & Safety	EN 50155, MIL-STD-810-F, EN 60601, EN 60950
Approval List	CE, IEC 60945, IACS E10

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