Key features

Quad Core ARM Cortex A9 CPU

18-32V DC power input

2x LAN

2x CAN

2x USB

2x Digital OUT

IP56 Ingress Protection as console mount

Removable SD under service hatch

Fanless rugged design

Embedded Linux

Maritime Approval

MPCF1-10,4" MARITIME PANEL COMPUTER

RUGGED LOW POWER MULTI-TOUCH COMPUTER DESIGNED FOR MARITIME AND OFFSHORE

The MPCF1-10,4" Maritime Panel Computer is a rugged low power multi-touch computer designed and tested for maritime and offshore environments.

The computer is based on a Quad core ARM Cortex A9 processor with low power consumption and has a fanless, minimalistic design with a daylight readable 10,4" XGA panel and touch sensor with multi-touch.

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Technical specifications

System	
Processor	Quad core ARM Cortex A9 with high performance graphics
Graphics	3D graphics with four shaders. Two 2D graphics engines. Full HD H.264 codecs.
Memory	1GB low power 64bit DDR3
Storage	8GB removable SD card
Ethernet	2x 10/100/1000Mbit Ethernet
CAN	2x Galvanic isolated high speed CAN according to ISO1198-2
USB	2x USB 2.0
Digital IO	2x +24V Digital outputs (max 100mA)
Buzzer	Internal buzzer
OS	Embedded Linux

Panel	
Resolution	XGA 1024x768 native resolution
Colours	16,2mill colours (6bit+FRC)
Brightness	1000 nits with brightness enhancement technology, dimming to less than 1nits
Contrast	1:1000, typical
Viewing angle	88°/88°/88°/88° typical
Touch	Projected capacitive multi-touch

Power	
Power input	18-32V DC Reverse polarity protection Galvanic Isolated
Power consumption	1,4W @24V in standby 12W @24V (idle, 50 % brightness) 24W @24V (full load,100 % brightness)

Technical	
Housing	Die cast and painted aluminum housing with several mounting options; VESA 75/100, flush and console mount. Color RAL 9005 Black
Dimensions	252,4 (W) x 197,8 (H) x 36,4 (D) mm
Weight	1.6 kg

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Environmental	
Temperature	Operating*: -10°C to +55°C Tested for: - 25°C to +70°C
Humidity	Operating: 95% @40C (non-condensing)
Ingress protection	IP56 as console or flush mount IP22 as VESA mount

*Continuously running at operating temperature above 45°C will reduce the lifetime of the computer.
For high temperature environment and use in enclosed cabinets/consoles without airflow or cooling, a low noise fan
kit is available. Recommended operating temperature is 25°C.

Certification
Designed and tested for DNV-CG-0339:2021, IEC 60945:2002+ Cor1:2008, IACS E10 Rev 8:2021, EU RO Mutual Recognition. IEC 62288:20 Ed.3.0 –Partly tested

Technical drawings

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