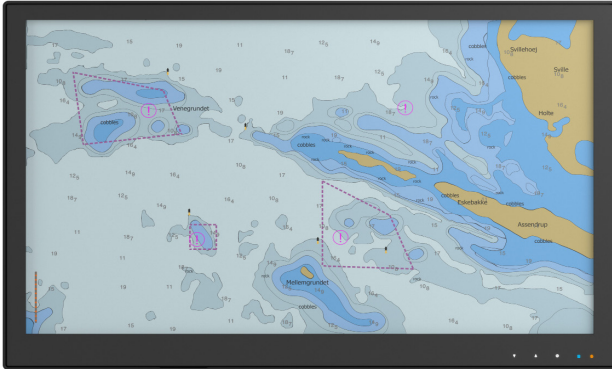


DuraPANEL 24" S-Line (Q670)

Wide Screen Panel PC for Radar & ECDIS



DuraPANEL 24" S-Line Panel PCs are designed for marine, naval and other demanding environments where reliable and durable hardware is required. Applicable for CAT 2 Radar.

The S-Line product family is an up-to-date and cost efficient design featuring super slim design, low weight, low power consumption and integrated touch keys for dimming on the front.

- ✓ 60945 Type Approval
- ✓ ECDIS Applications
- ✓ Radar Applications

Mechanical outline

DuraPANEL 24" S-Line

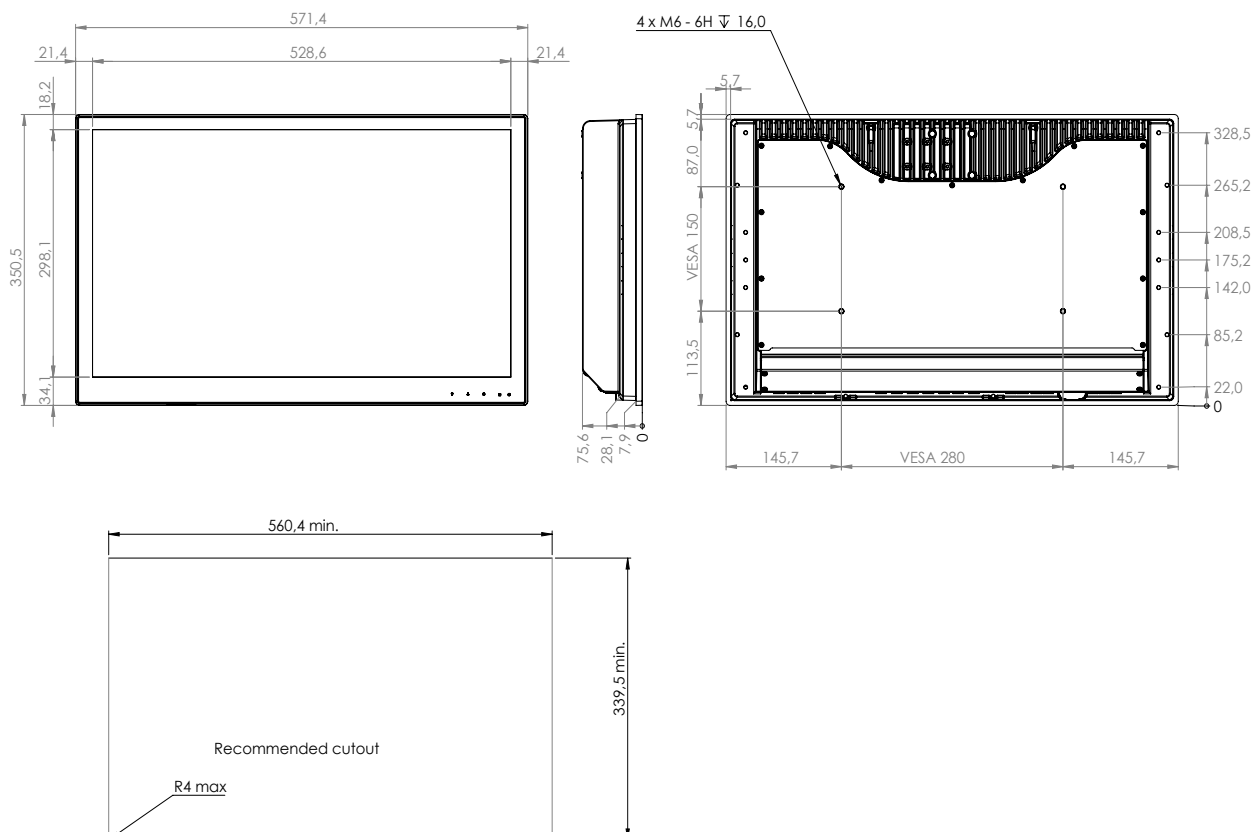


Table bracket - ISIC PN 10123-000

Changes may occur - for latest please contact sales@isic.dk

Specifications DuraPANEL 24" S-Line (Q670)

Display properties

Size	23.8" wide screen
Aspect ratio	16:9
Active area	527.0 x 296.5 mm
Luminance	450 cd/m ²
Contrast	1000:1
Native resolution	1920 x 1080 (full HD)
View angle	89° (L/R/T/B) typical
View distance	944 mm minimum
Glass	Anti reflective and thermal toughened

OS options

Windows	Windows 10 IoT Enterprise LTSC
Windows	Win 11 IoT Enterprise LTSC 2024

Input/output terminals

DisplayPort out	2 x DP 1.2 up to 4096 x 2160 @ 60Hz
HDMI	2 x HDMI 2.0 up to 4096 x 2160 @ 60Hz
Ethernet	2 x Gbit LAN, Intel i210AT, Intel i219LM
USB	4 x USB 3.2 Gen. 2

Motherboard

Chipset	Intel® Q670E (12/13th Gen.)
TPM	Onboard TPM 2.0 IC
Watchdog timer	1-255 steps by software programming
HW monitoring	Temperature, Voltage
Wake-on-LAN/PXE	Yes (WOL/PXE)
Power state	S3, S4, S5
On board graphics	Intel® UHD 730/770
Graphics supports	DirectX 12, Open GL 4.5, Open CL 2.1

Input/output options

Touch	P-Cap multi touch
NMEA	Up to 2 x 4 isolated RS422 (NMEA comp.)
Serial Port	1 x RS232/422/485 (un-isolated)
Digital I/O	4 x Digital input + 4 x Digital output
USB	4 x USB 2.0
Ethernet	1 x Gbit LAN extra

CPU Options

Core i3-13100TE	2.4 (4.1) GHz 4P cores, TDP 35W
Core i5-13500TE	1.3 (4.5) GHz 6P+8E cores, TDP 35W
Core i7-13700TE	1.1 (4.8) GHz 8P+8E cores, TDP 35W
Core i9-13900TE	1.0 (5.0) GHz 8P+16E cores, TDP 35W

Physical dimensions

Dimensions	572 (W) x 351 (H) x 76 (D) mm
Dimensions in box	670 (W) x 490 (H) x 160 (D) mm
Weight	13 kg 15 kg in box

Environmental

Operating temp.	- 15 to 55° C
Storage temp.	- 25 to 70° C
Humidity	8 to 95% RH (5 to 90% RH storage)
Protection	IP56 from front - IP22 from rear
Compass SD	145 cm (stand.) 90 cm (steer.)

Memory and Storage

Memory	Up to 64 GB DDR5, RAM, 2 x SO-DIMM
Storage ports	SSD - 2 x 2.5" SATA 3.0, 1 x M.2
Storage size	128GB SSD up to state of the art

Options & accessories

ECDIS	Colour calibration for ECDIS applications
Console bracket	Console mount bracket kit (10585-124)
Table bracket	Table mount bracket (10123-000)
Table bracket VESA	Table Mount VESA bracket (07317-000)
Wall bracket VESA	Wall mount VESA bracket (07317-001)
Buzzer	75-85 dBA
Removable SSD	2 x removable SSD trays on rear

Power supply/power consumption

AC Power	100-240 VAC 50/60Hz (Nominel Marine)
DC Power	24 VDC (Nominel Marine) optional
AC/DC dual power	230 VAC + 24 VDC combined optional
Power(P)	<100W (VA)

Approvals & Certificates

Marine	IEC 60945 ed. 4 & IACS E10 rev. 9
ECDIS	IEC 61174 ed. 4
Radar/Navigation	IEC 62388 ed. 2 & IEC 62288 2021
Certificate	DNV EU RO MR, Pending

Operator interface front panel

Power	Power on/off (press for 10 sec. to turn off)
Up	Adjust backlight up
Down	Adjust backlight down