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(intel®)

NEXT-GEN TECHNOLOGY IN NAVAL VESSELS

Leading systems integrator Irene enhances the capabilities of navy vessels worldwide using defence-grade fanless embedded PCs to support radar, navigation and onboard automation

IRENE   Marine | Italy

Business needs

Irene helps navies retrofit existing vessels and equip new ones with the latest x64 technologies to support state-of-the-art radar and navigation systems. It needs the help of an original equipment manufacturer (OEM) to provide fanless industrial PCs for use in the European frigates as well as naval vessels worldwide.

Solutions at a glance

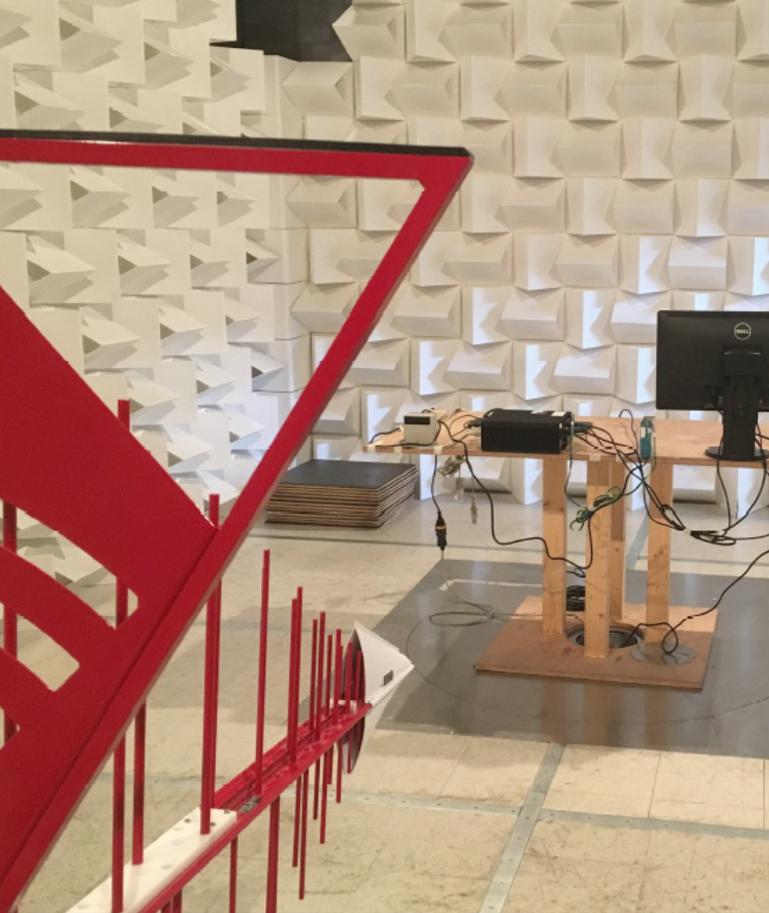● **OEM Solutions**

● **Client solutions**

Business results

● Helps upgrade and new installation of naval vessels around the world

● Gains certifications to sell naval-grade workstation globally

● Ensures changes to OEM platform are well transitioned

● Enables PCs to withstand challenging on-board conditions.

5%

power saving
boosts energy efficiency

4x

greater performance
compared to previous workstation models

Navies around the world are upgrading their vessels. In Europe, for example, countries such as Italy are enhancing their fleets with ships offering the latest in navigation systems and weaponry.

Changing technology from prow to stern

Leading systems integrator Irene is helping navies enhance their fleets. Its workstations, built on the latest x64 technologies, are delivering improved radar, automation and navigation systems. To develop its workstation solutions, Irene needs the support of a tier-one original equipment manufacturer (OEM).

Giovanni Pozzo, technical director and chair of Irene says, "We need defence-grade fanless PCs to power our workstations. The PCs must be reliable, because there's no room for error on a naval vessel. Plus, the PCs have to be robust enough to handle the tough conditions on-board a ship."

The right partnership

To meet its OEM needs, Irene works with Dell EMC OEM Solutions. Pozzo says "We feel as though Dell EMC OEM Solutions is unique. It combines Dell EMC products with an organisational infrastructure to support manufacturers like ourselves on a global scale."

All the necessary IT certifications

Irene deploys the Dell Embedded Box PC 5000 computer at the heart of its workstation solutions. The industrial PC runs software for radar and navigation systems and for controlling processes such as ship propulsion, heating and ventilation. "The Dell Embedded Box PC 5000 is a great choice for us. We're delivering a highly innovative solution with Dell EMC OEM that is four-times more compact than the standard naval-grade workstation," says Pozzo.

> "*We're proud to be supporting this new breed of naval vessel with our cutting-edge workstations built with Dell EMC OEM Solutions.*"

Giovanni Pozzo, Technical Director and Chair of the Management Board, Irene

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With the solution delivered via Dell EMC OEM Solutions, Irene gets the support that it needs. "With Dell EMC OEM, we gain the certifications for shipping solutions to Europe, Asia and North America," says Pozzo. "We can also customise the PC if required, while ensuring we receive plenty of notice ahead of any design changes. The whole Dell EMC OEM setup is customer focused."

Helping to transform naval vessels

The naval-grade workstation from Irene is being deployed on vessels belonging to the Italian navy. "We're proud to be supporting this new breed of naval vessel with our cutting-edge workstations built with Dell EMC OEM Solutions," says Pozzo.

Enables global market

Irene can sell its workstation solution to navies, as well as shipping companies, worldwide thanks to its accreditation by RINA, an international body whose role is to help ensure on-board technology meets high standards. Irene's solution is also EMI compliant, which means that nearby electrical devices won't suffer any electromagnetic interference. "Having the approval from RINA for our workstations opens ups sales opportunities around the globe. Dell EMC OEM Solutions has done

a great job at supporting our communications with the relevant authorities with all the product data on the embedded PC."

4x greater workstation performance

The Irene workstation solution is giving naval vessels high-performance compute power. "Compared to previous workstations, we're delivering four times the performance with our Dell EMC OEM based workstations featuring the Dell Embedded Box PC 5000," says Pozzo.

Lower power consumption

As well as gaining greater performance from their workstations, naval customers are also increasing energy efficiency. "We need to minimise power use as much as possible on-board naval vessels. Our workstations deliver a five percent power saving — which is important in an environment where every watt of power counts," says Pozzo.

Learn more about Dell EMC solutions

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