

Simplifying Network Connectivity for Maritime Applications

Location

Turkey

Industry

Maritime

Application

Navigation

Project Overview

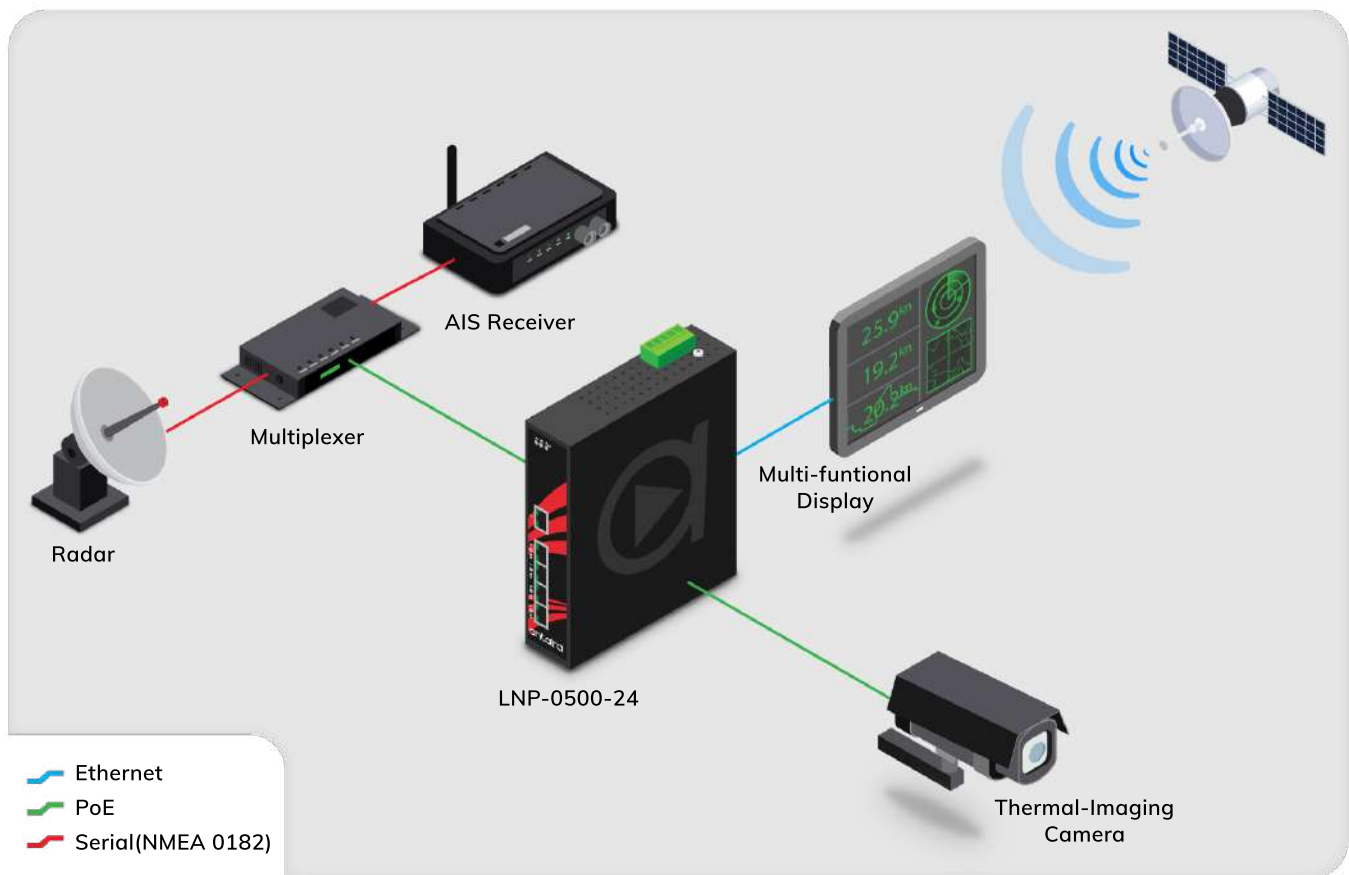
Ensuring navigational safety in total darkness or in unpredictable waterways is of paramount importance for all types of vessels. Hence, the use of Thermal-imaging Camera, Radar, and AIS on board has now become an essential part of the vessel operation. These systems are vital monitoring tools that help the crew by enhancing their situational awareness in order to avoid colliding with another vessel or floating objects.

Application Overview

According to the following diagram, the function of a multiplexer is to collect serial messages that are received from AIS and Radar, and forward them to the corresponding display and camera via Ethernet. The multi-function display is used to show heading information, speed, and course along with thermal images that point towards any floating object on the Radar scope.

Application Requirements

- Ensuring smooth data communication among various devices
- Flexible and cost-effective network deployment solution
- Capable of withstanding extreme temperatures



Antaira's Solution

Antaira's LNP-0500-24 switches were adopted in several deployments of maritime applications as they enabled quick and easy Ethernet connectivity between marine electronic devices. With the straightforward plug-and-play feature, a great deal of time and effort can be saved during the installation process. The LNP-0500-24 also provides up to 30W PoE power per switch port, therefore, any 802.3af or 802.3at compliant PD (Powered Device) can be easily powered up, which eliminates the need for additional electrical wiring.

Product Used

LNP-0500-24 ↻

5-Port Industrial PoE+ Unmanaged Ethernet Switch



- 4-Port IEEE 802.3at compliant PoE+ Function with 30W/Port
- 1-Port 10/100Tx Fast Ethernet
- Network broadcast storm protection
- Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 2K MAC Address Table
- Surge Protection: 2,000 VDC support
- ESD Protection: 6,000 VDC support
- Redundant Power Input Design - 12~36VDC
- Built-in 1 relay output for Port Break Alarm
- IP30 Rugged Aluminum Case Design
- DIN-Rail and Wall Mount support
- Operating Temperature range - STD: -10° to 70° C, EOT: -40° to 75° C
- 5-Year Warranty

Why Choose Antaira

Antaira's commitment is to exceed its customer's expectations by offering high quality industrial Ethernet products and outstanding support services. Antaira has demonstrated its capability of delivering comprehensive network solutions that ensures the fulfillment of security, scalability, and redundancy demands for any critical application.

About Antaira

Antaira Technologies is a leading developer and manufacturer that provides high-quality industrial networking and communication product solutions. Since 2005, Antaira has offered a full spectrum of product lines that feature reliable Ethernet infrastructures, extended temperature tolerance, and rugged enclosure designs. Our product lines range from industrial Ethernet switches, industrial wireless devices, Ethernet media converters, and serial communication devices. Our vast professional experience allows us to deploy a wide array of products worldwide in mission-critical applications across various markets, such as, automation, transportation, security, oil & gas, power/utility, and medical. Antaira is ISO9001 certified.

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