

Success Stories



Successful Deployment of Defence Panel PC in South America

Military Armored Reconnaissance Operations

Background

South America is characterized by diverse terrain and complex security threats, ranging from insurgencies to drug trafficking. As a result, military forces in the region continually seek ways to enhance their reconnaissance capabilities to maintain security and protect national interests. The [R08IB3S-MLU1](#), equipped with an 8.4" Intel® Celeron® N2930 G-WIN Defence Panel PC and an Intel® 12th/14th Gen Core™ Processor with NVIDIA® RTX™ GPU Industrial Edge AI Computer, offers a comprehensive solution for real-time data processing, communication, and situational awareness.

Main Challenges

Terrain Diversity: South America encompasses a wide range of terrains, from dense rainforests to high-altitude mountain ranges. Navigating and surveilling such diverse environments present significant challenges for reconnaissance operations, requiring robust and adaptable systems.

Security Threats: The region faces various security threats, including insurgencies, drug trafficking, and organized crime. These threats demand constant vigilance and proactive measures to ensure national security and stability.

Communication Infrastructure: Some remote areas in South America lack reliable communication infrastructure, posing challenges for real-time data transmission and coordination between reconnaissance units and command centers.

Limited Resources: Many South American countries have budgetary constraints, limiting their ability to invest in advanced military technologies. Cost-effective solutions that offer high performance and durability are essential to overcoming this challenge.

Operational Environment: Operating in challenging conditions, such as extreme temperatures, humidity, and rough terrain, can strain equipment and affect performance. Military-grade solutions must withstand such environments to ensure reliability and longevity.

Core Product

- [R08IB3S-MLU1](#) - 8.4-inch Intel® Celeron® N2930 G-WIN Defence Panel PC
- [WNAI-E800](#) - Intel® 12th/ 14th Gen Core™ Processor with NVIDIA® RTX™ GPU
Industrial Edge AI Computer

Why Winmate

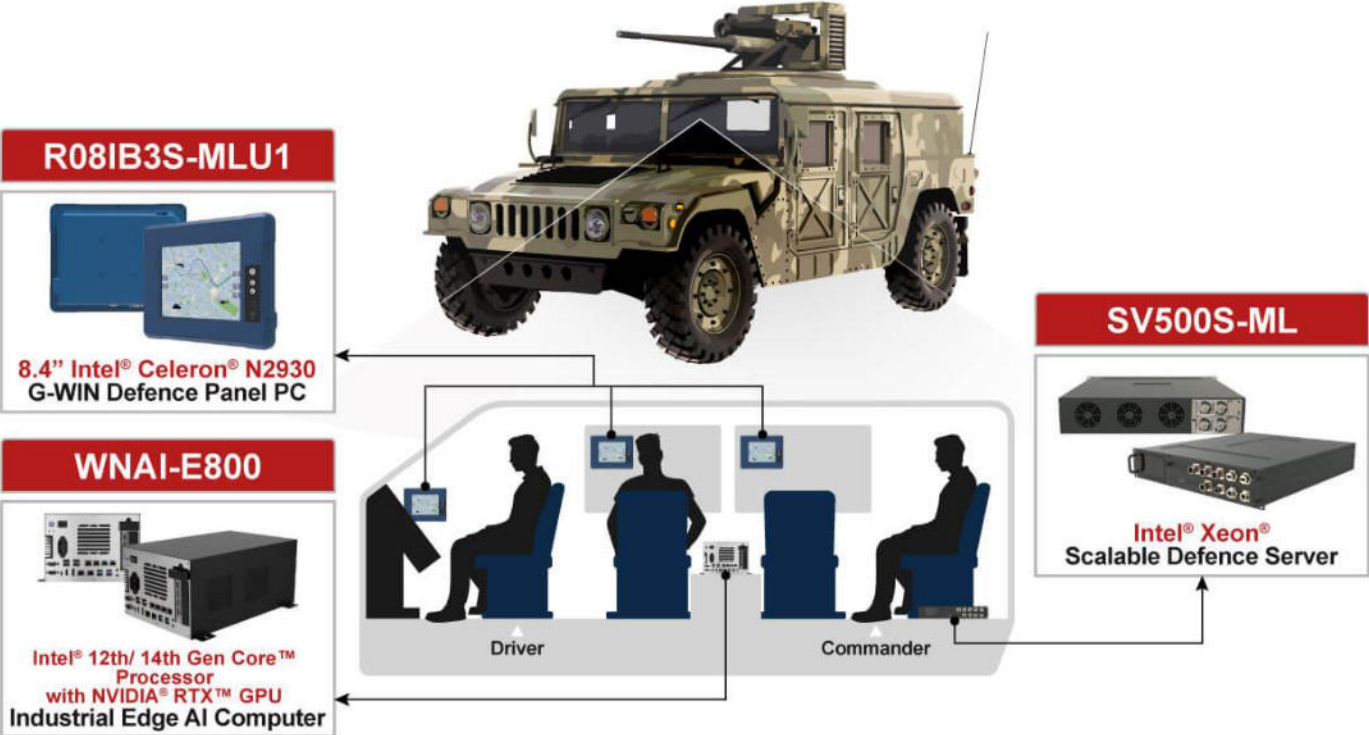
The deployment of the [R08IB3S-MLU1](#) system significantly enhanced the effectiveness of South American military forces in armored reconnaissance operations. By providing real-time intelligence, improved situational awareness, and rapid response capabilities, the system contributed to greater security and stability in the region. Moreover, its success paved the way for further innovation and integration of advanced technologies in military operations across South America.

The successful utilization of the [R08IB3S-MLU1](#) system in South American military armored reconnaissance operations demonstrates the transformative potential of technology in enhancing security and defense capabilities. By leveraging advanced hardware and edge AI capabilities, military forces can gain a decisive advantage on the battlefield, safeguarding national interests and ensuring peace and stability in the region. As threats continue to evolve, ongoing investment in technological innovation will be essential to maintaining a strategic edge in future conflicts.

Application Diagram

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Related Products

Winmate R08IB3S-MLU1



- 8.4" Intel® Celeron® N2930 G-WIN Defence Panel PC
- Defence grade power connector
- Ultra Low Power and High Performance Intel® Celeron® Bay Trail N2930 1.83 GHz
- Fanless Design
- High Quality 8.4" Panel, 800 x 600 Resolution
- Full IP65 Dust/water resistant Protection (Except I/O parts)
- Aluminum Housing with Anti-Corrosion Treatments
- Anti-Shock and Vibration Standard according to MIL-STD-810F/G & IEC60068-2-27
- 5 Wire Resistive Touchscreen / Anti-Reflection Protection Glass (Optional)
- 802.11 a/b/g/n Wireless LAN with Antenna (Optional)
- Wide Range 9 to 36 V DC Input (Optional)

Winmate WNAI-E800



- Intel® 12th/ 14th Gen Core™ Processor with NVIDIA® RTX™ GPU Industrial Edge AI Computer
- Supports Intel® 12/14th generation Alder LakeS/Raptor Lake S processor (LGA 1700)
- Supports single NVIDIA RTX™ A4000/A5000/A6000 GPU
- Up to 2 x 262pin SODIMM DDR5 4800MHz up to 64GB(32GB per Slot)
- 2 x Intel 2.5 Gigabit LAN. Optional additional 4 Gigabit LAN.
- Supports Two display, 1 x HDMI 2.0, 1 x DP 1.4a
- Supports Intel® vPro
- Rugged Design, -40°C to 60°C operation (Optional)