Transforming Armored Defense Vehicles

Winmate's Vehicle Computing Solutions

Background

In the realm of armored defense vehicles, where reliability, performance, and ruggedness are paramount, Winmate's innovative vehicle computing solutions have emerged as a game-changer. Let's explore how the integration of Winmate's FM14E-V, a 14" Windows Vehicle Computer with Intel® Elkhart lake x6425E processor, and FM10AD-V, a 10.4" Vehicle Mount Terminal with Intel® Alder Lake Processor, has revolutionized reconnaissance tanks in both North and South regions.

Main Challenges

In the ever-evolving landscape of modern warfare, armored defense vehicles play a critical role in reconnaissance missions, providing vital intelligence and surveillance capabilities on the battlefield. However, traditional computing systems used in these vehicles often lacked the performance, reliability, and flexibility needed to meet the demands of modern warfare scenarios.

Core Products

- **FM14E-V** - 14-inch Windows Vehicle Computer with Intel® Elkhart lake x6425E
- **FM10AD-V** - 10.4-inch Vehicle Mount Terminal with Intel® Alder Lake Processor

Why Winmate

Winmate is a standout choice for vehicle computing solutions in the defense sector due to several key factors:

- **Ruggedness:** Winmate designs its products with military-grade durability, ensuring they can withstand the harsh conditions and extreme environments encountered in combat situations. This ruggedness is essential for ensuring continuous operation and reliability in armored defense vehicles.

- **Performance:** Winmate's vehicle computing solutions are powered by high-performance Intel® processors tailored for automotive applications, such as the Elkhart Lake x6425E and Alder Lake Processor. These processors provide the computing power needed to support complex reconnaissance tasks and process data from multiple sensors and cameras in real-time.

- **Customization:** Winmate offers customizable solutions to meet the specific requirements of defense agencies. Whether it's integrating specialized software, adding additional features, or adapting to unique mounting configurations, Winmate can tailor its products to suit the needs of armored defense vehicles.

- **Experience:** With years of experience in providing rugged computing solutions for various industries, including defense, Winmate understands the unique challenges and requirements of military applications. This experience allows them to develop products that meet the stringent standards and demands of defense agencies.
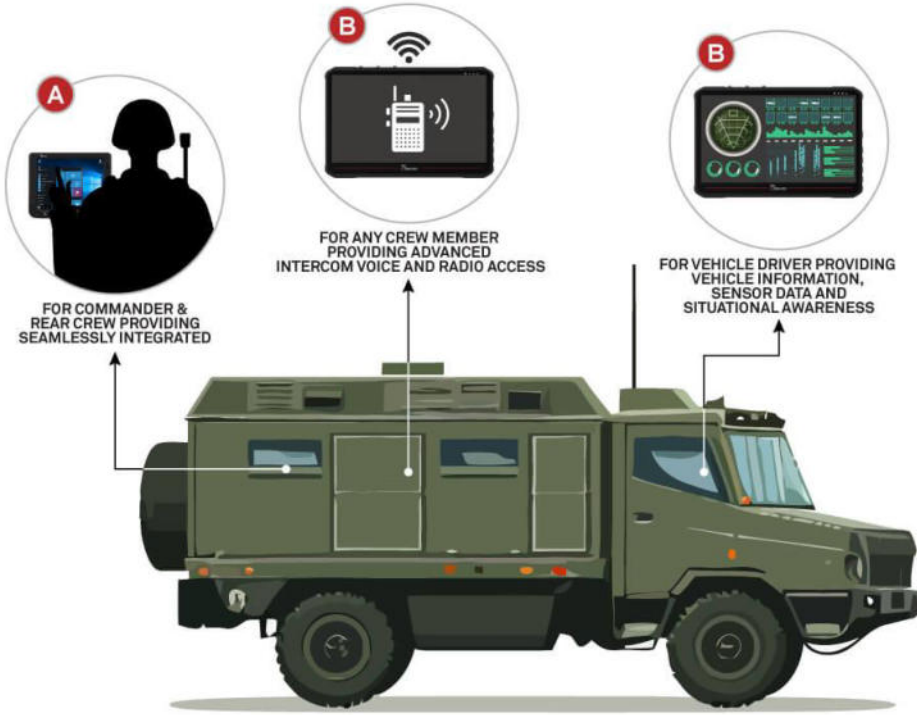
- **Global Presence:** Winmate has a global presence and works closely with defense agencies worldwide. This ensures that customers have access to reliable support, service, and logistics, regardless of their location.

- **Innovation:** Winmate is committed to innovation and staying at the forefront of technology. By continuously developing and incorporating the latest advancements in computing, communication, and automotive technologies into their products, Winmate ensures that its solutions remain cutting-edge and effective in meeting the evolving needs of defense applications.

Winmate's combination of ruggedness, performance, customization, experience, global presence, and innovation makes it a trusted partner for defense agencies seeking reliable and high-performance vehicle computing solutions for their armored vehicles.

Application Diagram

Transforming Armored Defense Vehicles
Winmate's Vehicle Computing Solutions

A — FOR COMMANDER & REAR CREW PROVIDING SEAMLESSLY INTEGRATED

B — FOR ANY CREW MEMBER PROVIDING ADVANCED INTERCOM VOICE AND RADIO ACCESS

B — FOR VEHICLE DRIVER PROVIDING VEHICLE INFORMATION, SENSOR DATA AND SITUATIONAL AWARENESS

Applicable Products

FM10AD-V
A
10.4" Intel® Alder Lake
Windows Vehicle Mounted Computers

FM14E-V
B
14" Intel® Elkhart lake x6425E
Windows Vehicle Mounted Computers

Related Products

Winmate **FM14E-V**

- 14" Windows Vehicle Computer with Intel® Elkhart lake x6425E
- Intel® Elkhart lake x6425E Processor vehicle computer
- 14" 1920 x 1080 Panel with PCAP touch screen
- IP65 waterproof and dustproof
- Wide power input 10-60V DC with ignition
- Wide range operating temperature
- Support VESA Mount

Winmate **FM10AD-V**

- 10.4" Vehicle Mount Terminal with Intel® Alder Lake Processor
- 12th Gen. Intel® Processor Family – Alder Lake Processor
- 10.4" 1024 x 768 Panel with PCAP touch screen vehicle mount terminal
- IP65 waterproof and dustproof
- Wide power input 10-60V DC with ignition
- Wide range operating temperature
- Support VESA Mount