TACTICAL SOLUTIONS

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Tactical Solutions

Twinhead applies its extensive experience in defense to provide unique Tactical Solutions.

Twinhead Tactical Solutions is the simplest and most cost effective way to meet the diverse requirements in defense IT. Similar to COTS, it utilizes existing components to generate varies solutions yet it is highly customizable to meet specific product requirement for application such as CCCI (Computer, Control, Communication, Command Intelligent) or Battle Field Management System.

- Application : Tank, Amored Vehicle , Naval Vessel
- Function : CCCI (Computer Control Communication, Command Intelligent), Battle Field Management System

The Advantage of Tactical solutions

- **Cost effective**

  We have standard Main Board, DC to DC Converter, LCD Module and chassis for system customization, so you can:
  - Shorten Development Time
  - Lower maintenance time and cost by using common parts

- **Design Reliability**

  For tactical solutions, we apply full military compliant verification process:
  - In-house testing and Third-Party Certification
  - Thermal Shock, Vibration, Humidity, Water Jet, I/O Ports, Structure Pressure, Rain, Dust Proof
  - Military Standards: MIL-STD 810G, MIL-STD 461F, MIL-STD 1275, MIL-STD 1250, etc.

- **Quality Control**
  - Following ISO-9001 Standard, 100%Out-going Inspection
  - Component Quality Management (Vendor Quality Assurance, Incoming Quality Control, Materials AQL Inspection, etc.)
  - Monitoring And Recording Manufacturing Process
  - ORT (On-going Reliable Test)

- **Product life management**
  - Standard Warranty for 3 years.
  - Enhanced Warranty for 5 years.
  - Spare parts management

We offer standard product, module customization, and system customization.

V10BB

is an ultra-rugged Military Panel PC which is compliant with military (MIL-STD) standards and IP67 specification to meet extremely harsh conditions.

It provides highly reliable CCCI and battle management capabilities for military vehicles and homeland defense applications.

HIGH FLEXIBILITY

Measuring only 58mm in thickness and 5kg in weight, V10BB has the most compact size of the tactical terminal; addition to 4 mounting solutions, it is capable with high flexibility to accommodate itself to any limited space.

HIGH RELIABILITY

With on board memory card design and in-house verification capability, as well as enhance by 100% in/out-going inspection, V10BB is undisputed offering customers with high stability and quality.

- IP 67
- Built with Aluminum-Alloy
- Design from solid aluminum for highest precision and EMC/EMI performance
- Fulfill military standards in accordance with MIL-STD 810G and MIL-STD 461F.

HIGH SECURITY

V10BB support Quick SSD Release and Quick Data Erase/Destroy Function to protect valuable data from falling into the wrong hands in the emergency situation.

- Multi-Function Display
  - 10.4" (1024 x 768)LCD Display with 1,000 nits
  - Equipped with resistive multi-touch screen
  - Night Vision Mode ≤ 1.7 nits
  - 178° Wide View Angle
  - Optical Bonding with EMI Mesh
- High Performance
  - Powered by Intel® Broadwell MCP processor
  - Support 4GB or 8GB on board memory
  - Support 2.5" Wide Temp. 500GB SATA SSD
- Others
  - Auto Power on/off when DC-IN / VCC on/off with selectable timer setting
  - Independent Chassis rounding
  - Vehicle power input according to MIL-STD-1275
  - Fanless Design

Key features

- IP67
- Intel® Broadwell MCP processor (U series)
- 4GB / 8GB on Board Memory
- Optical Bonding Sunlight Readable 10.4" LCDDisplay
- Optional Resistive Multi-Touch Panel
- Night Vision Mode MIL-STD 3009
- Comply to MIL-STD 810G for Temperature, Humidity, Solar Radiation, Fungus, Salt Fog, Vibration, and Gun Fire Shock
- MIL-STD 461F
- DC Power 18V~36V MIL-STD 1275D
- Optional HDD Quick Erase Function
- Flexible I/O Interface Design on Side or Rear
- Measuring Only 58mm in Thickness
- Max. 28Programmable Buttons with Backlight VGA x1, HDMI x 1 (Optional) , Mini PCI-E x 1, GbE LAN x 2, USB2.0 x 4, RS-232/422/485 x 6, CANbus x 2, 8 DIO x 1, Power x 1

Enhancing Customization Flexibility

Twinhead adopts standard CPU board and provides diverse levels of customized solutions as well as design to satisfy all requirements of market. In order to produce the compliant product for customers, tactical solutions support all product development issues from materials, styling consideration to manufacturing to mass production.

- Display Size
- Military Connectors
- Function Keys
- Fanless Thermal Solution
- I/O Module with Diverse Signals
- DC To DC Converter
- Different BIOS /OS adoption
- Mechanical Housing
- Specific Certifications of Different Army Applications

Panel PC / Driver Display / Smart Display