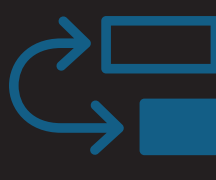# HOW TO INCREASE SITUATIONAL AWARENESS AND REDUCE SYSTEM COMPLEXITY WITH A SINGLE-BOX SOLUTION
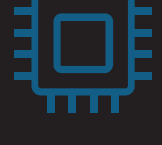
Small, fast, integrated DBH-672 Digital Beachhead™ system delivers advanced Arm® computing and Gigabit switching in an impressively small form factor.

TAKE
1 small form-factor Line Replaceable Unit.

ADD
1 fully managed Gigabit Ethernet switch with Precision Time Protocol (PTP) support.

COMBINE
1 quad-core Arm vetronics computer running Linux.

ENABLE
Support for VICTORY software and network shared services.

DEPLOY
The first, rugged, commercial off-the-shelf (COTS), VICTORY-compliant, single-box solution for situational awareness processing in ground and airborne platforms.

ENGINEERED FOR MULTI-FUNCTION FLEXIBILITY

THE **DBH-672** ELIMINATES THE NEED FOR MULTIPLE SYSTEMS AND THE COMPLEX, CUSTOM CABLING REQUIRED TO CONNECT INDEPENDENT SYSTEMS INTO ON-BOARD NETWORKS.

PROVIDES
- General-purpose embedded computing
- In-vehicle network switching at network edge

ENABLES
- VICTORY infrastructure switching and shared processing for In-Vehicle Network (IVN) architecture adopted by the U.S. Army/U.S. Marine Corps' Vehicle Integration for C4ISR/EW Interoperability (VICTORY) initiative

OPTIMIZES
- Fully functional and seamless in-vehicle experience for warfighters
  - **Eliminates** unnecessary redundant technology
  - **Facilitates** communication between systems
  - **Delivers** multiple functions from a single size, weight, power and cost (SWaP-C)-optimized system

OPTIMIZED FOR GROUND AND AIR

THE **DBH-672** SUPPORTS BOTH GROUND VEHICLE AND AIRBORNE PLATFORM APPLICATIONS WITH MIL-STD-704/1275 POWER COMPATIBILITY AND MIL-STD-810G ENVIRONMENTAL REQUIREMENTS FOR COMBAT AND TACTICAL WHEELED VEHICLES AND AIRCRAFT PLATFORMS.

ADVANCED SWITCHING AND ROUTING
16 ports of fully managed Layer 2 GbE switching and static Layer 3 routing

POWERFUL PROCESSING
Multi-core i.MX6-Quad Arm-based vehicle management computer with flexible vetronics interfaces, includes:
- CANbus
- Serial
- Audio
- Video
- Digital I/O

The computer supports optional Mini-PCIe I/O module expansion (for MIL-STD-1553, ARINC429, civillian GPS/GNSS, etc.).
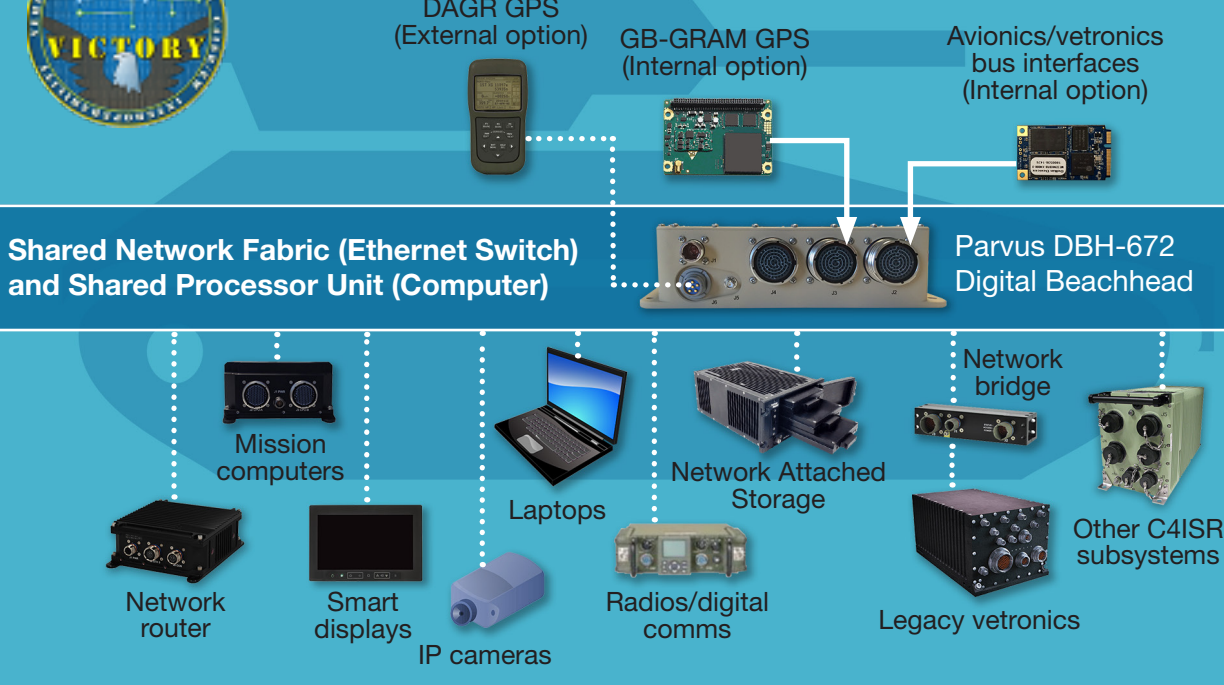
FULLY RUGGEDIZED
- Dust and waterproof (IP67)
- Full operation with natural convection across broadest range of operational environments
- Designed for high-shock/vibration requirements with a filtered, transient protected power supply for aircraft and vehicle use (per MIL-STD-1275, MIL-STD-704)
- Includes circular MIL-DTL-38999 connectors on its front panel for reliable network connections

COMPLETELY COMPATIBLE
- Works with Curtiss-Wright's family of:
  - Network-capable x86 Intel®-based Parvus DuraCOR mission computer LRUs
  - Secure Cisco® IOS®-based routers, such as the Parvus DuraMAR 5915 for in-vehicle processing and network architectures
  - Network Attached Storage devices like the DTS1 or CNS2 to securely encrypt and store sensitive mission data
  - Open-architecture, COTS-based, rugged embedded computing boards configurable to address

APPLICATION

DAGR GPS (External option)

GB-GRAM GPS (Internal option)

Avionics/vetronics bus interfaces (Internal option)

Shared Network Fabric (Ethernet Switch) and Shared Processor Unit (Computer)

Parvus DBH-672 Digital Beachhead

Mission computers

Laptops

Network Attached Storage

Network bridge

Network router

Smart displays

IP cameras

Radios/digital comms

Legacy vetronics

Other C4ISR subsystems

LEARN MORE

Learn more about Curtiss-Wright's DBH-672 Digital Beachhead system.

Contact our technical sales team at ds@curtisswright.com or visit us online at www.curtisswrightds.com/dbh-672

CURTISS-WRIGHT