Radar Video Distribution

Frontier Electronic Systems provides both analog and digital radar data distribution. We offer scalable radar distribution technology that is fully customizable to meet the needs of any radar distribution requirement.

Our LAN Radar Data Distribution System (LRADDS) distributes radar video data over an open architecture LAN to legacy analog and Open Architecture Computer Equipment (OACE) compliant display consoles. It also allows for direct interface to standard Navy radars, IFF sensors, and legacy analog consoles.

Our scalable architecture is optimized for use in any existing electrical equipment enclosure as a self-powered, add-on VME card cage. It can be used in portable systems, rack-mounted equipment enclosures, or stand-alone solutions using our specially designed, rugged enclosures.

These solutions can be customized to accommodate many applications, including:

- Combat Systems
- Navigation Systems
- IFF Systems
- Fire Control Systems
- Air Traffic Control Systems

LAN Video Distribution

Frontier Electronic Systems offers the same video distribution technology as LRADDS for camera video applications. Our LAN Video Distribution System (LVDS) provides distribution of camera video data over an open architecture LAN to OACE-compliant and legacy analog display consoles.

The LVDS architecture allows for direct JPEG 2000 encoding from standard analog video, HD video, or RGB video. Video Interface Modules (VIM) provide conversion from analog or digital signal video inputs to an open architecture Internet Protocol (IP), delivered over an Ethernet LAN.

LVDS technology is ideal for:

- Rugged Naval Sheltered environment camera video distribution
- Multiple-operator onboard surveillance
- Tactical display content duplication
ILS Solutions

Our experience as a military equipment supplier ranges from design inception to maintenance. We provide several products that enhance the sustainment of our deployed equipment such as:

- Interactive Electronic Technical Manuals (IETM)
- Portable Maintenance Assistant (PMA)
- Radar Simulation (RSIM)
- Radar Recorders

IETMs

Our IETMs provide quick access to technical information in a portable, electronic format. Our IETMs provide an intuitive architecture, which increases the effectiveness of technicians, reducing time for troubleshooting, maintenance, and parts ordering.

Our in-house technical writing staff specializes in content creation and review, life cycle management, and multiformat/media publishing. Our staff is integrated within the engineering team to fully understand the equipment to develop IETM and training materials.

Portable Maintenance Assistant

Imagine taking your IETM and other technical information with you in the palm of your hand. Our Portable Maintenance Assistant (PMA) is a handheld tablet specifically designed for technicians in need of fast, portable information. The PMA is an integration of tools designed to offer the functionality of an IETM and diagnostics through status monitoring and remote video displays, all within one small, portable unit.

Innovative Technologies

Frontier Electronic Systems designs new and innovative methods to reduce costs and protect your investment. Our new composite electrical enclosure provides the strength of conventional enclosures at a competitive cost at less than half the weight.

Radar Recording and Simulation

Frontier Electronic Systems supports your training efforts with our Radar Simulator and our Advanced Radar Recorder System.

Our Radar Simulator is a single-slot, 6U VME card capable of supplying simulated analog radar signals for testing equipment in environments where no radar signals exist, such as training facilities.

The Advanced Radar Recorder System software provides radar recording and playback capabilities to network-based radar distribution systems.