

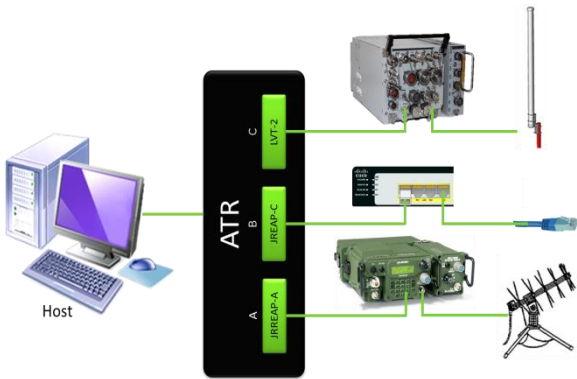


Tactical Communications Group, LLC

# ATR

# ROUTE

YOUR DATA LINKS



EXAMPLE ATR CONFIGURATION

## ADAPTABLE TACTICAL DATA LINK ROUTER (ATR) – FULL FEATURED LINK-16 ROUTING

*The ATR supports multiple TDL communications protocols including all Link 16 MIDS-LVT and Class 2 terminals, Link 16 Small Tactical Terminal (STT), Link 16 TacNet Tactical Radio (TTR), JREAP, SIMPLE, SADL, Socket-J, and Serial-J connections.*

### FEATURE RICH

Using proven, mature software and hardware interfaces, the Adaptable TDL Router (ATR) seamlessly bridges multiple Link-16 network interfaces, providing dynamic connectivity on-demand at critical infrastructure nodes.

Individual routing connections can be configured to block / pass only certain messages (by labels and sub-labels) or block / pass up to 10 individual source track numbers.

### AFFORDABLE

The ATR satisfies the need for a Link 16 interface router that does not require a data link processing engine nor a tactical display and therefore can be purchased at a lower price point than a BOSS or GTS.

### UPGRADEABLE

In a typical “out of the box” configuration, the ATR supports up to four (4) SIMPLE connections, one (1) Ethernet connection, four (4) JREAP-C connections, one (1) SADL connection, and one (1) Socket-J connection.

Interface expansion is available for JREAP-A, Serial-J, and 1553 terminal interface. Additional SIMPLE or JREAP-C connections are also available.

**The ATR is Ready Now to support your Data Routing requirements.**

## INTEGRATE. ROUTE. OPERATE.

The ATR is a technologically advanced, standards compliant Link 16 Tactical Data Link adapter and routing device.

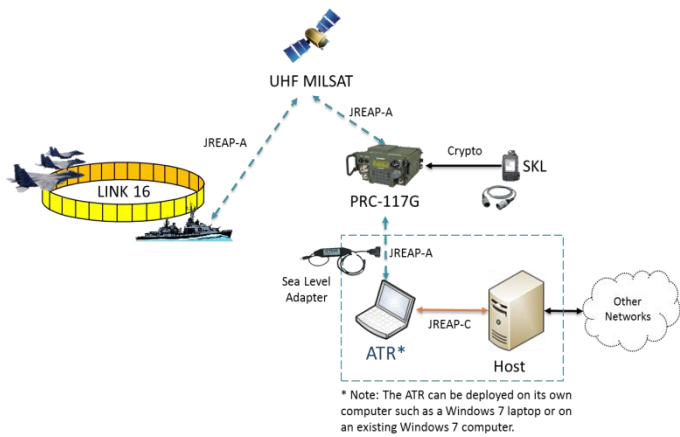
*“The need to route data to multiple nodes and protocols is an ever growing challenge – the ATR makes this task simple and effective.”*

Nick Kropp, Vice President Worldwide Field Operations, TCG

**TACTICAL DATA LINK ROUTING**  
**DATA LINKS SIMPLIFIED**

(978) 654-4800

[www.g2tcg.com](http://www.g2tcg.com)



Example ATR JREAP Gateway Configuration

THE ATR COMES IN A VARIETY OF HARDWARE CONFIGURATIONS.

THE BASIC CONFIGURATION IS A SINGLE SIMPLE CONNECTION WITH A SINGLE JREAP-C AND A CHOICE OF MIDS PLATFORM D OR J ETHERNET CONNECTION.

## Interface Options

- JREAP-A and JREAP-C
- Link 16, SIMPLE, SADL
- Socket-J and Serial-J
- 1553-B:
  - MIDS LVT-1 (Platforms A and I)
  - MIDS LVT-3 (Platforms A, B, C, D, E)
  - Class II (F-15, E3, Navy Ship, Navy Air, MCE)
- Ethernet:
  - JREAP-C (TCP, UDP Multicast, Unicast)
  - MIDS LVT-1 (Platform D)
  - MIDS LVT-2 (Platform J)
  - Small Tactical Terminal (STT)
  - TacNet Tactical Radio (TTR)
  - SADL Gateway (EPLRS)
  - Socket J
  - SIMPLE-16
- RS-232: Serial J
- RS-422 JREAP-A (ARC-210, PRC-117F, PCS-5)

## Additional Hardware Options

In addition to the standard rack mounted server configuration, the ATR can be configured as a laptop or desktop computer – such as a Dell® Precision Notebook (dual core processor) or Dell T7600 (quad core Xeon processors), 6GB RAM, removable 320GB hard drive, Gbit Ethernet, DVD/RW, and external interface hardware, such as 1553 for Link 16 and/or Sea Level USB to synchronous serial adapter for JREAP-A. Ruggedized hardware is also available.

## AFFORDABLY ROUTE MULTIPLE LINK 16 TACTICAL DATA LINK NETWORKS

### ATR CAPABILITIES

- > Dynamic interface configuration
- > Complete J-Series message support
- > Dynamic J-Series message routing
- > Message (label/sub-label) data filtering
- > Source track data filtering (up to 10)
- > Terminal initialization and control
- > Message monitoring (DERGViewer)
- > Message Traffic record and analysis
- > Compatible with the BOSS™
- > Tactical situational awareness display
- > Multiple radio support

### OPTIONAL RUGGEDIZED SPECS

- > Temperature
  - Operating -50 to 104 F
  - Non-Operating -40 to 158 F
- > Relative Humidity
  - Operating 10% to 90%
  - Non-Operating 10% to 90%
- > Altitude
  - Operating 10,000 feet
  - Non-Operating 15,000 feet

### HARDWARE & OS SPECS

- > Rack mounted, 2U / 3U Server
- > Intel® Xeon® 3.0 processor
- > 8GB memory and 500GB hard drive
- > 100-220V, 50/60Hz AC
- > Windows 7
- > 1Gb Network Interface Card
- > Keyboard, Mouse, and Monitor (optional)
- > 1553 Bus Card (optional)
- > Serial Interface (optional)
- > USB Synchronous (optional)

### DATA LINK STANDARDS

- > MIL-STD-1553B (1553 Bus)
- > MIL-STD-3011A (JREAP-A)
- > MIL-STD-3011A (JREAP-C)
- > MIL-STD-6016B, C, D, E (Link 16)
- > STANAG 5602 (SIMPLE)
- > STANAG 5516 (Link 16)
- > MTC v2

*TCG is the leading independent supplier of tactical data link software solutions for military communications systems. TCG's comprehensive portfolio of TDL testing, training, simulation and battlefield operations solutions provides the warfighter proven multi-link communication capabilities to optimize performance and increase mission effectiveness.*

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