DATA LINK SOLUTIONS
BAE SYSTEMS/Rockwell Collins
Data Link Solutions, L.L.C.

AN/URC-138(V)1(C)

Link 16 Low Volume Terminal

Link 16 – a key enabler for network centric warfare

The AN/URC-138(V)1(C) Information Distribution System provides anti-jam protected, encrypted, high throughput data distribution. It's low cost, makes Link 16 participation affordable. The small size and low weight of the AN/URC-138(V)1(C) terminal makes it suitable for a broad variety of other platforms.

The small, lightweight AN/URC-138(V)1(C) terminal is waveform, message format and network compatible with existing Link 16 systems. The terminal provides Link 16 interoperability between the U.S. tri-services and NATO forces.

Link 16 provides at-a-glance situation awareness by providing threat, target and friendly ID, position and status information among participating platforms in near real time, with anti-jam security without any voice communication.

The terminal provides full stacked net capacity, up to 128, and full Link 16 data throughput. The system can automatically exchange information from a variety of platform sensors. This can include functions such as IR and optics scan, target identification and steering commands. Real-time data updates can also be used to provide landing cues.

In addition to robust data communication, the AN/URC-138(V)1(C) terminal also provides two voice ports to enable secure voice communication in a jamming environment.

Terminals have been in production since December 1999.

Features

Low production unit cost

Link 16 compatible waveform and message format

High net capacity and data throughput

Fully interoperable with current U.S. and NATO JTIDS systems

Spread-spectrum, frequency hopping, anti-jam protected communications

High reliability: MTBF >2000 hours

Modular hardware, SEM-E format, plug-in modules to meet changing mission requirements

Modularity, tailorable to platform specific needs

Designed to accommodate future growth options

Functionally partitioned ADA software

Small size, low weight, air cooled

The AN/URC-138(V)1(C) Link 16 terminal is truly state-of-the-art design. Both hardware and software are modular and functionally partitioned. This speeds system configuration changes and upgrades, simplifies changes required by mission variations and maintenance and helps ensure low life-cycle cost.

Specifications

Operational Characteristics

Net Participation:
TDMA
128 nets maximum
128 time slots/sec/net
Message Catalog: J-Series messages as defined in STANAG 5516
Frequency Operating Range: 969-1206 MHz
Informational Data Rates: 28.8 to 238 kb
Anti-jam: Frequency hopping
Forward error detection/ correction
Range (max) 400nm
BIT
System detection 98%
Module isolation 98% to 3 SRU's
90% to 1 SRU

Electrical Characteristics

RF Power Output (max) 200W
I/O Data/Voice
Data MIL-STD-1553
Voice Port 1 LPC-10 (2.4kbs)
Voice Port 2 CVSD (16kbs)
Antenna JTIDS compatible
Power Dissipation (avg pwr) 750W
Primary Power 120VaC 3ϕ 400 Hz

Physical Characteristics

Size (max) L 12.52 in (318mm)
W 10.1 in (256.3mm)
H 7.5 in (191mm)
Volume (max) 0.55 Ft^3
Weight (max) <44 lb (20kg)
Packaging SEM-E module form factor Cooling
Forced air Mounting Hard mount

Data Link Solutions (DLS) has brought situational awareness to more than 2000 platforms, as a critical first step to network centric warfare. Established in 1996 by BAE SYSTEMS and Rockwell Collins, DLS is a leading supplier of Link 16 terminals and system integration, software, logistics and support services.

DATA LINK SOLUTIONS
BAE SYSTEMS/Rockwell Collins
Data Link Solutions, L.L.C.
www.datalinksolutions.net
319.295.4DLS (4357)

BAE SYSTEMS

164 Totowa Road
PO Box 975
Wayne, NJ 17474-0975
Phone: 973.633.6000
Fax: 973.633.6167
www.cni.na.baesystems.com

Rockwell Collins

400 Collins Road NE
Cedar Rapids, Iowa 52498-0120
Phone: 319.295.5100
Fax: 319.295.4777
E-mail: collins@rockwellcollins.com
www.rockwellcollins.com/gs