Leveraging a full-duplex architecture and four or eight I/O port configurations, the Viasat RT-1829(P)/S multi UHF channel terminal provides SATCOM connectivity for an entire ship. This terminal can help you reduce the size, weight, and power of your UHF communication equipment by streamlining functionality traditionally achieved with a stack of radios and eliminating RF multiplexing, configuration, and management challenges. With a single control or management interface you can operate multiple voice and data communications simultaneously and independently.

This terminal is Joint Interoperability Test Command (JITC) and NSA certified to ensure compliance with legacy Demand Assigned Multiple Access (DAMA) MIL-STDs and provide interoperability with already fielded UHF SATCOM terminals. When each channel is combined with an external 200 watt power amplifier, LNA/diplexer, and antenna, the Viasat RT-1829(P)/S terminal creates a complete low-cost UHF SATCOM system.

To support the growing demand for capacity, optimize channel performance, and provide backwards DAMA interoperability, this terminal is Integrated Waveform (IW) certification ready. With IW capability, the Viasat RT-1829 provides voice communication for additional users, enables comm access to be tailored to individual operational needs, and reduces transmit/receive contention. Under contract with DISA, Viasat has successfully installed and tested IW UHF network control stations around the world.

### AT-A-GLANCE
- **JITC & NSA certified**
- **IW certification ready**
- **Ruggedized for shipboard applications**
- **Up to 4 full-duplex RF channels**
- **9U rack mountable**
- **Single HMI configuration**
- **Replacement for legacy terminals:**
  - AN/USC-42 (mini-DAMA)
  - AN/USC-54 (VICS)
  - AN/WSC-3
Viasat RT-1829(P)/S Shipboard UHF Terminal

**SPECIFICATIONS**

**INTERFACES**


Compatible COMSEC: ANDVT AN/USC-43, KY-99A, KY-100, KY-58, KG-84A/C; KIV-7 and others

Keyfill: DS-101, DS-102

UHF

- RX: 243 to 270 MHz, 50 Ohms
- TX: 292 to 318 MHz, 50 Ohms

Frequency Ref Input and Output: 1, 5 or 10 MHz; OdBm

Remote Control: Ethernet (Local PC)

HPA Control: Keyline

Power Source: 120/240 VAC, 50/60 Hz

**PHYSICAL CHARACTERISTICS**

9 Rack Units: Standard 19-in. rack

Depth: 23.75 in.

Weight: <100 lb

**ENVIRONMENTAL/EMI**

Operation Temperature: 0° to +50° C

Altitude (Storage and Transportation): 0 to 15,000 ft

Humidity: 95%, non-condensing

Cooling: Integrated fans

EMI: MIL-STD-461F/EN55022/EN55024

Vibration: MIL-STD-167-1A

Shock: MIL-S-901D

Salt Fog: MIL-STD-810G

Ambient Noise: MIL-STD-1474 (Grade A3)

Input Power (Power Supply): MIL-STD-1399

ITE Safety: EN60950-1

**WAVEFORM CAPABILITIES**

- MIL-STD-188-181B: Dedicated
- MIL-STD-188-181C: IW capable
- MIL-STD-188-182A: 5 kHz DAMA
- MIL-STD-188-182B: IW capable
- MIL-STD-188-183-: 25 kHz DAMA
- MIL-STD-188-183B: IW capable

**CERTIFICATIONS**

- JITC certified for DAMA and Dedicated
- NSA certified for Sensitive but Unclassified orderwire processing
- IW JITC certification ready

**CONTACT**

SALES

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TECHNICAL SUPPORT

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