RUAG **ARANEA** Communication Expert

Tactical Access Node T - TAN T



The **RUAG ARANEA TAN T** is an integrated voice and data router that enables interoperable connectivity between core networks and headquarters, detached ad hoc C2 facilities, and tactical mobile networks.

Providing international military forces and security organizations with an essential foundation for today's mission critical communication infrastructure, the RUAG ARANEA TAN T is a compact, ruggedized, interoperable voice and data network access element for tactical communication systems.

It offers the entire routing and networking functionalities and services of the RUAG ARANEA software to seamlessly connect heterogeneous telecommunication networks. In particular, it presents secure and scalable functionality for voice, data and imagery applications required for tactical communications, allowing links to external public strategic and legacy networks. By creating an extended all-IP network, fixed line communication equipment and field radio devices are able to exchange information to enhance situational awareness.

The RUAG ARANEA TAN T has been designed for extreme field conditions. All interfaces come in a compact housing, optimally conceived to be deployed in a 19-inch rackmount system in mobile command posts or vehicles.



Together ahead. RUAG

Hardware specifications

Environmental conditions	
Temperature	-40+55° C operation -40+71° C storage MIL-STD-810G, 502.5 Proc I and II, 501.5 Proc I and II
Relative humidity	95% RH MIL-STD-810G, method 507.5 Proc II (aggravated), Fig. 507.5-7, 10 cycles @ 55° C
Vibration	MIL-STD-810G, method 514.6, cat. 5 truck/trailer – loose cargo, figure 514.6C-4.WLAN MIL-STD-810G, method 514.6, cat. 20 ground mobile, figure 514.6C-3 and table 514.6C-VI; figure 514.6C-2 and table 514.6C-IV (placement of unit in an anti-vibration frame)
Transit drop	MIL-STD-810G, method 516.6, Proc IV (transit drop in transport case)
Shock	MIL-STD-810G, method 516.6, Proc I, with unit placed in an anti-vibration frame

ЕМС	
Emissions	MIL-STD-461F – CE102, figure CE102-1 – RE102, 2 MHz to 18 GHz, figure RE102-4 Ground (curve Army)
Immunity	MIL-STD-461F
	 RS101 (radiated susceptibility, magnetic field, 30 Hz to 100 kHz) figure RS101-1 RS103 (radiated susceptibility, electric field, 50 V/m 2 MHz to 18 GHz CS101 (conducted susceptibility, power leads, 30 Hz to 150 kHz, figures CS101-1 curve 2 (nominal source voltage = < 28 Vdc, CS101-2), CS114 (conducted susceptibility, bulk cable injection 10 kHz to 200 MHz.), Figure CS114-1 on all cables (Table VI: 10 kHz-2 MHz. curve #2, 2 MHz-30 MHz. curve #2, 30 MHz-200 MHz. curve #2) CS115 (Conducted Susceptibility, Bulk Injection, Impulse Excitation) Figure CS115-1 CS116 (Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power Leads, 10 kHz to 100 MHz, figure CS116-2, IMax = 10 A)

Mechanical Watertight and hermetically sealed housing, carry handles and 19-inch mounting adapters, hardened for military use		
Weight	Approx. 10 kg	
Cooling	Cooling functions without air exchange between the inside and outside of the housing. If required, an internal fan forces the airflow.	

Available interfaces		
Switched electrical Ethernet	Up to 7 × 10/100/1000 Base-TX Up to 6 × PoE	
Switched optical Ethernet	Up to 2 \times 1000 Base-FX single mode, 5 km	
Service	1 × 10/100 Base-TX, 1 × USB 2.0, 1 × VGA	
Analogue telephony	Up to 16 × a/b FXS or FXO	
E1	Up to 6 × E1	
SHDSL	Up to 3 × G.SHDSL (2-wire)	
EUROCOM	Up to 2 \times EUROCOM EES/D/1: A (10 pin) or B or C, on 1 connector	
Voice Radio	Up to 6 × Analogue Voice Radio Terminal (6 wire)	
USB	Up to 3 × USB 2.0	
WLAN access point	802.11 a/b/g with up to 2 × HF interface	
Serial and relay	1 × RS232 asynch, 1 × Relay Out, 2 × Relay In	

Power	
Input voltage	18-60 VDC or 110 VAC/230 VAC with external power supply
Input power	85 W typical, 105 W peak (preliminary)

Notes

- Default colour: RAL 9005
- Other configurations on request
- External fan, 19-inch mounting kit, a/b patch panel available on request
- Part of the features listed are available only as options