RUAG TACTICAL COMMUNICATION PLATFORM

Tactical Access Node T – TAN T

↗ The **RUAG TAN T** is an integrated voice and data router that enables interoperable connectivity between core networks, command centers, separate command systems and tactical mobile radio networks.

DESCRIPTION

The RUAG TAN T offers international armed forces and security organizations an essential foundation for today's communication infrastructure, which is critical to success. It enables compact, interoperable network access for tactical communication systems.

It offers all the routing and network functions and services of the RUAG ARANEA software core to seamlessly connect heterogeneous telecommunication networks to one another. It also offers secure and scalable functions for voice, data and image applications that are required for tactical communication by enabling connections to external, public, strategic and available networks. The creation of an extended All-IP network allows fixed-line communication devices an d radio equipment to exchange information in order to increase situational awareness.

The RUAG TAN T was designed for extreme operating conditions. All interfaces are mounted in a compact housing that is optimally designed for use in a 19-inch rack system for mobile command posts or vehicles.

HARDWARE SPECIFICATIONS

↗ MECHANICAL

Hermetically sealed housing, carry handles and 19-inch mounting adapters, hardened for military use

Size (L×H×D)	380 × 132 × 268 mm Depth including connectors and caps: 308 mm
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.

↗ POWER

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

↗ 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

↗ EMC

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)

↗ 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.

↗ INTERFACES (NOT ALL INTERFACES CAN BE COMBINED IN ANY QUANTITY)

		T210F	T230A
Electrical Ethernet	10/100/1000 Base-T	6	10
SFP+	10GBASE-X (optical)	-	1
Radio Terminal Adapter	Audio, PTT, COR/Squelch, Serial Interface	2	6
Service	1 × 1000 Base-T, 1 × USB, 1 × VGA	yes	yes
Analog Telephony	FXS a/b FXO	16 4	-
E1	primary multiplex port	3	-
EUROCOM	EUROCOM EES/D/1	2	-

Optional Features on request

4G/ 5G/ WLAN	Wireless Connection	-	-
Optical Ethernet	1000 Base-LX	-	-
SHDSL	G.SHDSL (2 wire)	-	-
PoE	PoE 802.3af/at max. 100W	-	-