RUAG **ARANEA** Communication Expert

Tactical Access Node S – TAN S

The RUAG ARANEA TAN S is a semi-ruggedized, 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 organisations with an essential foundation for today's mission-critical communication infrastructure, the RUAG ARANEA TAN S is a compact, 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 S uses off-the-shelf connectors and cables for missions with lower environmental requirements. Typical deployments are in 19-inch rackmount systems in headquarters or fixed command posts.

Together ahead. RUAG

Hardware specifications

Environmental conditions

Temperature	0…+50° C operation -25…+70° C storage MIL-STD-810G, 502.5 Proc I and II, 501.5 Proc I and II
Relative humidity	5-95% RH MIL-STD-810G, method 507.5 Proc II (aggravated)
Vibration	MIL-STD-810G, method 514.6, cat. 5 – loose cargo, figure 514.6C-4 MIL-STD-810G, method 514.6, cat. 20 ground vehicles, figure 514.6C-3 and table 514.6C-VI; figure 514.6C-2 and table 514.6C-IV
Transit drop	MIL-STD-810G, method 516.6, Proc IV
Shock	MIL-STD-810G, method 516.6, Proc I

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 cable 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

Housing Size (L×H×D)	380 × 132 × 268 mm
Weight	Approx. 10 kg

Available interfaces

Switched electrical Ethernet	Up to 6 × 10/100/1000 Base-T Up to 6 × PoE
Switched optical Ethernet	Up to 2 × 1000 Base-LX
Service	1 × 100 Base-T, 1 × USB, 1 × VGA
Analogue telephony	Up to 16 × a/b FXS or FXO
E1	Up to 3 × E1
SHDSL	Up to 3 × G.SHDSL (2-wire)
EUROCOM	Up to 8 × EUROCOM EES/D/1
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/h antenna interface SMA or N-type

Power

Input voltage	18-60 VDC or 230 VAC with external power supply
Input power	80 W typical, 105 W peak

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