19”/4® mini Ra/IP GW

Thales mini Ra/IP GW

The 19”/4 Thales mini Ra/IP GW is a rugged radio gateway that meets the requirements in a mobile tactical environment. The radio gateway provides a seamless interface between a radio and SIP based voice system. It is qualified for Thales Tactical Voice System (TVS)

Key Benefits:

- Small rugged radio gateway, size: 19”/4 x 1U
- Easy adjustment of VOX level and Tx/Rx gain for analogue radios
- Simple configuration. Web based or TFTP based.
- Standard SIP user agent
- Support military features such as pre-emption and priority calls
- Status monitoring via SNMP

Key functions:

- Provide an access point between SIP voice system and radios
- G.711 and G.729
- Interface a variety of analogue radios
- Direct dialing between radios, such as Harris RF-5800H-MP, and SIP devices
- Simplex Individual and Group dialing to TETRA radios

The mini RA/IP GW is a joint development by Thales Norway A/S and MilDef AB.

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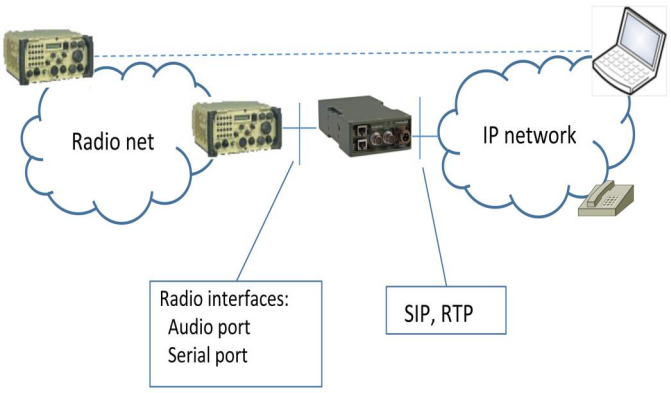
Technical Specification	
Description	Radio gateway
Codecs & Protocols	G.711 and G.729 voice codecs SIP (RFC 3261), SIP over UDP, TCP, TLS, RTP (RFC 3550), Configurable sample rate. DHCP (or static), NTP 802.1x, SIP authentification
PoE support	IEEE 802.3af
Configuration	Console, SSH, TFTP
Interface (front)	1 x LAN RJ45 PoE (10/100 Mbps) 1 x LAN RJ45 (10/100 Mbps) 1 x Audio port - 1 x Analog 4 wire - 1 x Analog 2 wire - 1 x 1 x 16 k bit AMI coded serial port - PTT and Squelch control signals 1 x Serial port - 1 x Asynchronous/synchronous RS-232 serial port - 1 x Asynchronous RS-232 serial port - 1 x USB 2.0 OTG 1 x DC in 10-32V DC
Interface (back)	1 x Console USB type B
Power Consumption	Max 5W
Transient power protection	Designed to meet MIL-STD-1275D
Case	Aluminium
Dimensions	110x182x44 mm (W x D x H)
Weight	≤ 1,5kg
Certification	MIL-STD-810F, MIL-STD-461F and MIL-STD-1275D
Other	No fans



Designed to meet:

MIL-STD-810F	Operating	Storage
Altitude Method 500.4, *(procedure II,III)*	4572 m (15000 ft)	Rapid decompression 12180 m (40000 ft)
Humidity Method 507.4	Five 48 h test cycles	-
Shock Method 516.5, *(procedure I, IV)*	40 G, 15 ms (Terminal-peak saw tooth shock pulse)	50 cm (14 drops)
Salt fog Method 509.4, *(Procedure I)*	-	Salt concentration of 5 % +-1 % (48 h wet +48 h dry/cycle)
Temperature Method 501.4 & Method 502.4, *(procedure I, II)*	-40 °C to 55 °C (-40 °F to 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature shock Method 503.4 (procedure I)	-40 °C to +55 °C (-40 °F to +131 °F)	-
Vibration Method 514.5	Exposure level C2 and C3 wheeled vehicles, 10 to 500 Hz Exposure level C4 tracked vehicles, 10 to 500 Hz	√ - -

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	10 kHz to 18 GHz	Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	Army
EMI conducted Method CE102	10 kHz to 10 Mhz	Basic Curve
EMI conducted Method CS101	30Hz to 150 kHz	Curve #2
EMI conducted Method CS114	10 kHz to 200 MHz	Curve #4
EMI conducted Method CS115	Tested according to standard	Army
EMI conducted Method CS116	10 kHz to 100 MHz	Army

ISO 9001: Certificate No. FM68727
ISO 14001: Certificate No. EMS554313

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