

Military Tactical Data Terminal RT5

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Military Tactical Terminal for HF, VHF, UHF Tactical Radios

FEATURES & BENEFITS:

- ✓ Ultra-rugged PDA incl. HF / VHF / UHF Modem
- ✓ Compatible with any HF, VHF, UHF Radio
- ✓ Ultra-rugged watertight enclosure and rugged connectors
- ✓ Lightweight, small and convenient
- ✓ Built-In AES Encryption for all over-the-air and data-at-rest information
- ✓ Secure Messaging: Chat, QuickText, SMS/MMS, and Email
- ✓ GPS, Compass, Navigation/Position Tracking, and polar map situational awareness display
- ✓ Sunlight-display and automatic 'night-mode' (dim to black)
- ✓ QWERTY keyboard with emergency and address book buttons
- ✓ Embedded JITC-certified STANAG 5066 ARQ for NATO interoperability as well as:
 - ✓ STANAG 4538 (3G ALE), 4539, 5066
 - ✓ MIL-STD 188-141B (App.A), 810F, 461

THE RT5 TACTICAL TERMINAL FOR MOBILE MILITARY COMMUNICATIONS

With its small size, the ultra-rugged, lightweight RT5 Tactical Terminal provides instant, secure messaging for any radio network with minimal training or set up time. Combined with the DT Mil System, the RT5 provides the secure messaging applications needed for digital command and control and extends those capabilities from the brigade level to the front line.

HIGH-PERFORMANCE MODEM

Using its high performance modem, the DT RTS interfaces via an audio cable to HF, VHF, or UHF transceivers to provide a gateway to secure intranets for email, and attachments, and via an external GSM modem for SMS/MMS, Chat, and QuickText features.

SIMPLE TO USE AND QUICK TO DEPLOY

Offering an intuitive user interface, the RT5 is simple to use and allows for rapid deployment of secure messaging applications, regardless of command levels or previous training. Predefined forms help structure information and drastically reduce the amount of data transmitted. Messages may be addressed to individuals or multiple

recipients,
depending on the service.

Enabling efficient and accurate point-to-point and broadcast data communications,
the RT5 keeps command centers in contact with the mobile force; even when voice communications are not possible

SITUATIONAL AWARENESS

For situational awareness, the RT5 provides a built in GPS receiver and antenna so that position and time information can be communicated

over the radio network as needed. Pictures and files can be uploaded to the RT5 and attached to emails, providing visual and critical information from the battlefield.

SECURE DIGITAL VOICE

The robust voice solution is designed for BLOS secure digital voice communication with superior performance in adverse channels. Vocoder rate is adapted dynamically to allow optimal quality in all channels. Broadcast and Private-Line (point-to-point) modes are supported, as well as late entry.

SECURE MESSAGING AND POSITION

CHAT and QuickCodes - provide flexibility and robustness, point-to-point or broadcast. Predefined Forms help structure information for ease-of-use and drastic data compression.

All over-the-air communications, locally stored messages and positions are encrypted. Access to the unit is restricted by means of a Personal Identification Number (PIN). A Zeroize function is provided from the keypad which erases all used data and key



DT PC GATEWAY (OPTIONAL)

The RT5 can provide a "modem mode" in which it connects with the DT GATEWAY Software on a PC via the Ethernet port providing end- to-end Email connectivity.

RT5 REQUIRED ACCESSORIES

USB Cable: For file transfer, camera access, printing, Network Configuration key-fill and field software upgrades.

Radio Cable: Use Generic Cable or contact AT Communication International AG for appropriate cable to support specific radio models.

Additional Accessories: Please contact AT Communication International AG

Hardware		Environmental	
Size&Weight	148x82x28mm (WxDxH), 490g including batteries	Temperature	-40°C to +60°C (operating), -55°C to +85°C (storage)
Colour	Black (RAL 9002)	Immersion	MIL-STD-810F Method 512.4 Proc 1 (1 hour at 1m)
Power	Battery: 2 x Standard AA-size cells, or 2 x NiMH AA-size, internal charger External: 5 – 36 V DC (vehicle surge protected)	Environmental	MIL-STD-810F Humidity, Shock, Vibration
		EMC / EMI	MIL-STD-461
Battery Life	> 12 hrs (Operational profile dependant)	Safety	IEC/EN 60950

Software & Modem	
Messaging	Chat, Text, QuickCodes, File Transfer, Template-based Forms, Position Transfer. Email and SMS via DT Gateway
Security	AES 256-bit (for ITAR non-restricted countries only, EUC required) with 1024 keys, Zeroize function. Tamper detection

Modem	High performance serial tone BLOS modem (V/UHF compatible) featuring adaptive equalization. The modem is able to deal with in-band interference and multipath/fading (up to 10 ms, 30 Hz). MIL-STD 110B also available (MARS)				
S 5066 Email	Over-the-air interoperability with embedded STANAG 5066 ARQ & CFTP email client, Interoperates with DT Gateway for Windows				
S 4536 Packet	STANAG 4538 LDL, HDL Packet Mode ARQ Configured by RC50-T Robust & efficient support for all the Messaging Services				
ALE 2G	Automatic Link Establishment FED-STD 1045 & 1049, MIL-STD-188-141B App A & B, Linking Protection, Occupancy Detection				
ALE 3G	STANAG 4538 Fast Link Set-up (FLSU), Linking Protection, Occupancy Detection				
OS & BIT	Operating System: Linux. Comprehensive BIT (Built-In-Test), Continuous error detection				
Storage	4 GB secure FLASH				
Vocoder	600, 1200 & 2400bps Low-rate Vocoder				
Digital Voice Performance	Vocoder Rate (bps)	Latency (s)	Understandability Limit SNR [dB]		PESQ (Voice Quality)
			CCIR Poor	AWGN	
	2 400	1.6	6.5	0.5	3.2
	1 200	2.2	4.0	-0.5	3.0
	600	2.2	0.5	-3.0	2.4

Interfaces	
Keyboard	QWERTY layout with backlighting. Dedicated backlight control. Built-in ambient light sensor. Zeroize key sequence
Display	2.4" Colour OLED, QVGA resolution (320 x 240), 18-bit colour depth. Status LED for 'message waiting' and charge indication
GPS	16-Channel receiver, -160 dBm sensitivity, LNA, Embedded active patch antenna
Red Accessory Port	
USB Host	USB Host Port 5V (100mA) output
Ethernet Port	10/100 Base T (IEEE 802.3U compatible), embedded TCP/IP Stack, Auto cross-over detection
Headset	MIC input line, PTT input line, EAR or SPEAKER output line
Black Audio Port	
Audio Port	Input: 10k Ohm unbalanced 5 Vp-p max. Output: Unbalanced, -40 to +0 dBm adjustable into 600 ohm load. PTT Output, Audio return
Serial Port	Control and Data port: RS-232 levels. RxD, TxD, CTS, RTS, DCD and CLK lines
Power	5 - 36 V DC input for operation and battery charging, 0.3 – 2.2 Watt



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