TACTICAL TERMINAL





FUNCTIONS AND APPLICATIONS:

- Voice Encryptor: Secure Digital Voice for Radio
- Position Broadcasts: Force tracking
- Secure Military PDA: On-device Messaging

FEATURES & BENEFITS:

- o Robust Modem: STANAG 4538, 3G ALE & ARQ
- o Extended Range: 300 to 2400 bps VOCODER
- Vocoder Options: TWELP* / MELPE**
- o **Security:** AES-256 Encryption
- o Address Book: Selective and Broadcast calls
- o **Position Transfer:** Built-in GPS Module
- o Any HF or V/UHF Radio: Using 3 kHz audio
- o Radio Remote Control: Ease of use
- o Interoperates with: RT7, RT3 & RT1
- o RapidM PC Software: Extends capability
- o RT CommandPoint support
- * TWELP voice coding by DSP Innovations Inc.(www.dspini.com)
- ** MELPe for US customers only

VOICE, MESSAGE, POSITION

The **RT5** is an ultra-rugged Tactical Terminal. The unit is part of the **RT** family that works with any HF or V/UHF radio, providing secure voice and data services.

The *RT5* is purpose-built to meet a commander and team leader's critical communication and navigation needs in extreme environments and under challenging conditions.

SECURE DIGITAL VOICE

The robust voice solution has superior performance in adverse channels. The 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 automatic late entry.

SECURITY

All over-the-air communications, messages and positions are encrypted. Access to the unit is restricted with an Access Code. A Zeroize function is provided to erase all data and keys.





RT5 SECURE DIGITAL VOICE

The robust voice solution is designed for BLOS secure digital voice communication with superior performance in adverse channels. The 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.

RT5 MODEM

The *RT5* has a built-in high performance data modem that connects to HF or V/UHF transceivers via the audio interface.

RT5 SECURE MESSAGING

Chat and QuickCodes - provide flexibility and robustness, point-topoint or broadcast. Predefined Forms structure information for easeof-use and drastic data compression.

RT5 POSITION TRANSFER

Position transfer can be configured to occur with every SDV and Chat transmission and on periodic intervals.

RT5 CONFIGURATION & KEY MANAGEMENT

The Key Management Software (*KMS256*) includes Key Management Tools and is provided along with the necessary cable and Key Fill Device. *KMS256* is part of the Configuration Bundle.

The System Configuration Software (*SCS*) allows Network, Address Book and CALLSIGN Configuration.

RT5 EMAIL: MESSAGEPOINT, GATEPOINT & COMMANDPOINT

The *RT5* can connect with *MessagePoint, GatePoint* or *CommandPoint* Software via the Local Ethernet port to provide end-to-end Email (with attachments) and GSM SMS connectivity (via GatePoint).

RT5 Accessories

Radio Cable (required): Contact *RapidM* for appropriate cables to support your radio models.

Mounting: Vehicle mounts, shock mounts, pouches, cables, etc. Please contact *RapidM* for more information.

RT5 HARDWARE					RT	RT5 ENVIRONMENTAL									
SIZE & WEIGHT		148 x 82 x 28 mm (w x d x h) 490 g including batteries			Ter	MPERATURE	Operating: -40°C to +60°C Storage: -55°C to +85°C								
COLOUR		Olive Drab (RAL6022)			IM	MERSION	MIL-STD-810F Method 512.4 Proc 1, 30 min at 1m								
Power	BATTERY	2 x Standard AA-size cells or 2 x NiMH AA-size, internal charger			EN	VIRONMENTAL	MIL-STD-810F Humidity, Shock, Vibration, Dust								
	EXTERN.	5 – 36 V DC MIL-STD-1275B vehicle power protection			EN	IC / EMI	MIL-STD-461								
BATTERY LIFE		>12 hrs (Operational profile dependant)			SA	FETY	IEC/EN 60950								
RT5 So	TWARE & MO	DDEM													
MESSAG	ING	Chat, Text, QuickCodes, File Transfer, Template Forms, Position Transfer. Email and SMS via GatePoint.													
SECURITY		AES 256-bit. Zeroize function. Tamper detection. Access control.													
MODEM		STANAG 4538 3G LDL, HDL+ Packet Mode, ARQ, Robust data extensions. (HDL+ not available in USA or via USA resellers)													
ALE		STANAG 4538 (3G) Fast Link Set-up (FLSU), Linking Protection, Occupancy Detection													
DIGITAL VOICE		Purpose-built Robust Digital Voice Waveform. Automatic Rate Adjustment. Late entry resynchronization.													
VOCODER		300, 600, 1200 & 2400bps Low-rate Vocoder.													
MODEM			nce serial tone B d multipath/fadi			e) featuring adar	otive equalization	. The modem is	able to deal	with in-band					
DIGITAL VOICE PERFORMANCE		Vocoder Rate [bps]	END-TO-END LATENCY [s]	PESQ	CHANNEL USE	INTELLIGIBILITY	SPEECH QUALITY SPEAKER RECOGNITION	LATENCY & EMOTIONAL	UNDERSTAND SNR CCIR POOR						
		2 400	1.6	3.1	Gnd/W	Very Good	Good	Acceptable	6.5	0.5					
		1 200	2.2	3.0	Sky/W	Good	Acceptable	Fair	4.0	-0.5					
		600	2.2	2.4	Sky/W	Acceptable	Fair	-	0.5	-3.0					
		300	4.4	1.7	Sky/W	Fair	-	-	-2.0	-6.0					
OS AND BIT		Operating System: Linux. Comprehensive BIT (Built-In-Test), Continuous error detection													
STORAGE		4 GB secure FLASH													
RT5 INT	ERFACES														
IVI 2 IIVI							QWERTY layout. Backlight control. Built-in ambient light sensor. Zeroize key sequence. Dim to black.								
NI J INI	KEYBOARD	QWERTY layout	t. Backlight contro	ol. Built-in ambi	ient light sensor.	Zeroize key sequ	ence. Dim to blacl	k.							
KI J INI	KEYBOARD	2.4" Colour OLE	ED, QVGA resolut	ion (320 x 240),	ient light sensor. 15-bit colour de lication. Auto nig	pth.	ence. Dim to blacl	k.							
LOCAL		2.4" Colour OLE Status LED for '	ED, QVGA resolut message waiting	ion (320 x 240), and charge inc	15-bit colour de	pth. ht mode.	ence. Dim to blacl	k.							
	DISPLAY	2.4" Colour OLE Status LED for ' 16-Channel rec	ED, QVGA resolut message waiting	ion (320 x 240), and charge inc ensitivity, LNA,	15-bit colour de lication. Auto nig	pth. ht mode.	ence. Dim to blacl	K.							
	DISPLAY	2.4" Colour OLE Status LED for ' 16-Channel rec USB Host Port 5	ED, QVGA resolut message waiting' eiver, -160 dBm s SV (100mA) outpu	ion (320 x 240), and charge inc ensitivity, LNA, ut	15-bit colour de lication. Auto nig	pth. ht mode. e patch antenna		k.							
	DISPLAY GPS USB HOST	2.4" Colour OLE Status LED for ' 16-Channel rec USB Host Port 5 10/100 Base T (ED, QVGA resolut message waiting' eiver, -160 dBm s SV (100mA) outpu	ion (320 x 240), and charge inc ensitivity, LNA, ut patible), embe	15-bit colour de lication. Auto nig embedded activ	pth. ht mode. e patch antenna		K.							
	DISPLAY GPS USB HOST ETHERNET	2.4" Colour OLE Status LED for ' 16-Channel rec USB Host Port 5 10/100 Base T (10k Ohm unbal	ED, QVGA resolut message waiting' eiver, -160 dBm s SV (100mA) outpu (IEEE 802.3U com anced 5 Vp-p ma	ion (320 x 240), and charge inc ensitivity, LNA, ut patible), embed x.	15-bit colour de lication. Auto nig embedded activ	pth. ht mode. e patch antenna k, Auto cross-ove	r detection	K.							
	DISPLAY GPS USB HOST ETHERNET AUDIO	2.4" Colour OLE Status LED for ' 16-Channel rec USB Host Port 5 10/100 Base T (10k Ohm unbal Balanced, –40 t	ED, QVGA resolut message waiting' eiver, -160 dBm s SV (100mA) outpu (IEEE 802.3U com anced 5 Vp-p ma	ion (320 x 240), and charge inc ensitivity, LNA, ut patible), ember x. uble into 600 of	15-bit colour de lication. Auto nig embedded active	pth. ht mode. e patch antenna k, Auto cross-ove	r detection	K.							

ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
RT5 TACTICAL TERMINAL	RT5-TU-SB5DCVE4	RT5: Term Green Modem 256b GPS S/B EN V4

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