


TC4 Ordering Information

June 2009

TC4 HF & V/UHF Modem & ALE Controller Module

	Software Packs	Description	Stock Number	
	M1	TC4 LF & HF Data Module (Embd, SW=M1)	RM-000-000-63M1	
	M2	TC4 HF Data Module (Embd, S/W=M2)	RM-000-000-63M2	
	M3	TC4 HF Data Module (Embd, S/W=M3)	RM-000-000-63M3	
	M4	TC4 HF Data Module (Embd, S/W=M4)	RM-000-000-63M4	
	V1	TC4 V/UHF Data Module (Embd, S/W=V1)	RM-000-000-63V1	
	Software Options (for M1-M4)			
	ALE 2G, LP, S/W Option TC4			RM-000-000-04AC
	ALE 3G, LP, S/W Option TC4			RM-000-000-04AE

TC4 Software Packs: M1-M4 (LF & HF Modem)

Standard	Coding Modulation		Data Rates & Characteristics	Military Modem Software Pack			
				M1	M2	M3	M4
MIL-STD-188-110B Appendix C	C	PSK/ QAM	3200, 4800, 6400, 8000, 9600 bps	•	•	-	•
	U		12800 bps	•	•	-	•
STANAG 4539	C	PSK/ QAM	75, 150, 300, 600, 1200, 2400, 3200, 4800, 6400, 8000, 9600 bps	•	•	-	•
	U		12800 bps	•	•	-	•
MIL-STD-188-110B	C	PSK/ QAM	75, 150, 300, 600, 1200, 2400, 3200, 4800, 6400, 8000, bps	•	•	-	•
MIL-STD-188-110B Appendix F	C	PSK/ QAM	ISB: 9600, 12800, 16000, 19200 bps	•	-	-	-
MIL-STD-188-110A § 5.3	C	PSK	75, 150, 300, 600, 1200, 2400 bps	•	•	•	•
	U		4800 bps	•	•	•	•
STANAG 4415	C	PSK	NATO robust: 75 bps	•	•	•	•
STANAG 4285	C	PSK	75, 150, 300, 600, 1200, 2400 bps	•	•	•	-
	U		1200, 2400, 3600 bps	•	•	•	-
STANAG 4529	C	PSK	75, 150, 300, 600, 1200 bps	•	•	•	-
	U		600, 1200, 1800 bps	•	•	•	-
STANAG 4481 PSK	C	PSK	300 bps	•	•	•	-
STANAG 5065	C	FSK MSK	75 bps (FSK) 300 bps (MSK)	•	-	-	-
STANAG 4481 FSK	U	FSK	Single channel: 75 bps	•	•	•	-
			Multi-channel: 75 bps selectable carrier	•	•	•	-
FSK Variable	U	FSK	Data Rates: 50, 75, 100, 150, 200, 300, 400, 600, 1200 bps Mark & Space Frequency: 350 to 3000 Hz	•	•	•	-

For pricing information please contact:
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TC4 Software Pack: V1 (V/UHF Modem)

Standard	Coding / Modulation	Data Rates & Characteristics
RapidM V/UHF Waveform	C PSK/QAM	16000, 32000, 48000, 64000, 76800, 96000 bps

TC4 Software Option: 2G ALE Controller

Standard	Characteristics
MIL-STD-188-141B (2G ALE) Appendix A, B & FED-STD 1045 FED-STD 1049	<p>Automatic Link Establishment 2nd Generation (2G ALE)</p> <p>Occupancy Detection: MS 110A/B, S 4539, S 4285, S 4415, S 4529, S 4481, FSK, 8-FSK, SSB Voice</p> <p>Protocol: Calling, AMD, DTM, Excluding: DBM, AQC-ALE</p> <ul style="list-style-type: none"> • Link Quality Analysis (LQA) • Scanning (2 or 5 channels per second) • Selective Calling • Automatic Sounding • Automatic Hand-Off to Internal Modem

TC4 Software Option: 3G ALE Controller

Standard	Characteristics
STANAG 4538 (3G ALE)	<p>Automatic Link Establishment 3rd Generation (3G ALE)</p> <p>Link Setup:</p> <ul style="list-style-type: none"> • 3G ALE: FLSU • 2G ALE (backwards compatibility) • Linking Protection (LP) • Occupancy Detection (OD) <p>Packet Switched Data (PSD):</p> <ul style="list-style-type: none"> • FTM + LDL / HDL <p>Circuit Switched Data (CSD) (depends on choice of software pack M1-M4):</p> <ul style="list-style-type: none"> • MIL-STD 110 A/B • STANAG 4539 (< 9600 bps) • STANAG 4415 (robust) • STANAG 4529, STANAG 4285 • MIL-STD-188-110A & 110B

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