

**Federal Supply Service
Authorized Federal Supply Schedule Price List**

TRAK Microwave Corporation GS-07F-5546P

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage! Is: <http://www.gsa.gov>.

Schedule Title: GSA Schedule 66 II J, Test and Measurement Equipment, Avionics Equipment, Unmanned Aerial Vehicles and Related Services

FSC GROUP: 66

FSC CLASS/PRODUCT CODE: 6625

Contract Number: GS-07F-5546P

Contract Period: January 15, 2009 through January 14, 2014

CONTACTOR'S NAME, ADDRESS, TELEPHONE AND FAX NUMBER; EMAIL AND/OR WEB SITE ADDRESS:
TRAK Microwave Corporation 4726 Eisenhower Blvd PH: 813-901-7346 FX: 813-901-7491. E-Mail: coldaker@trak.com
Web Site: <http://www.trak.com>

CONTACTOR'S ADMINISTRATION SOURCE: Mr. Craig Oldaker

Business Size Standard: Small Business

INFORMATION FOR ORDERING ACTIVITIES

1a. Awarded special item numbers: 602-7, Time and Frequency Standards and Calibration Instruments

1b. The lowest priced model number is 8835-1 & 8835-2. The lowest unit price for model number 8835-1 & 8835-2 is \$2,107.

1c. Hourly rates are not applicable for this item.

2. Maximum order: \$300,000

*If the "best value" selection places your order over the Maximum Order, identified in this catalog/pricelist, you have an opportunity

to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price.

The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order.

A delivery order that exceeds the maximum order may be placed under the Schedule contract in accordance with FAR 8 404.

3. Minimum order: \$100

4. Geographic Coverage: 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington DC, and U.S. Territories
5. Point of Production: Tampa, Florida.
6. Basic Discount: The awarded price list for the GSA multiple Award Schedule is the TRAK Microwave Corporation, Time and Frequency Systems
Price List, effective September 9, 2003 with a negotiated basic discount of 2% off the list price. For calculation of the GSA Schedule price
(price paid by customers ordering from the GSA Schedule), the contractor should deduct the 2% basic discount from the retail price and add the prevailing
IFF rate to the negotiated discount price (Net GSA price). Currently the IFF rate is .75%
7. QUANTITY/VOLUME DISCOUNT: Discounts vary based on annual business volume see below:
\$0-\$999,999 = 0%, \$1,000,000-\$2,500,000 = 5%, \$2,500,001-\$5,999,999 = 10%, Over \$6,000,000 = 15%
8. Prompt payment terms: 1% 10, Net 30
- 9a. Government purchase cards are accepted at or below the micro-purchase threshold. Credit Cards accepted are VISA and MasterCard.
- 9b. Government purchase cards are accepted above the micro-purchase threshold up to \$40,000. Credit cards accepted are VISA and MasterCard
10. Foreign items: None
- 11a. Time of delivery: 90 days ARO.
- 11b. Expedited Delivery: 75 days ARO, based on availability and additional charges may apply.
- 11c. Overnight and 2-day delivery: None
- 11d. Urgent Requirements: None
12. F.O.B. point: Destination
- 13a. Ordering address: Same as contractor
- 13b. For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's), and a sample BPA can be found at the GSA/FSS Schedule homepage (<http://www.fss.gsa.gov/schedules>)
14. Payment Address: Same as contractor
15. Warranty Provision: Standard Commercial Warranty: 2 years from date of shipment. TRAK Microwave will accept returned items for 1 year without a re-stocking fee only on the condition that the items have not been used, the items are not damaged, and have not been scratched.
16. Export packing charges: NA

- 17. Terms and conditions of Government purchase card acceptance for thresholds above the micro-purchase level: NA
- 18. Terms and conditions of rental, maintenance, and repair: Rental & maintenance are not applicable. NA
- 19. Terms and conditions of installation: NA
- 20. Terms and conditions of repair parts: NA
- 20a. Terms and conditions of other services: NA
- 21. Service and distribution points: NA
- 22. Participating dealers: NA
- 23. Preventive maintenance: NA
- 24a. Special attributes: NA
- 24b. Section 508 compliance information on Electronic and Information Technology (EIT) supplies and services: NA
- 25. Data Universal Number System (DUNS) number: 129402827
- 26. Central Contractor Registration (CCR) Database: 12855 (CAGE CODE)

TRAK Microwave GSA Price List
All Items are SIN 602-7

Model 8424 Timing Buffer Unit				
Model		Description	Std. Price Ea	GSA Price With IFF
Prices of units do not include the output Modules - TAFL Card Needs Specified				
8424-41		8 single-ended analog inputs; up to 64 outputs total; Non-redundant power supplies; Terminator & Fault Logic Module	\$7,250	\$7,105
		TAFL for -41		
		51 ohm impedance 4001968-105		
		620 ohm impedance 4001968-102		
8424-42		3 inputs; up to 64 outputs total; Redundant power supplies; Terminator & Fault Logic Module	\$8,275	\$8,110
		TAFL for -42		
		51 ohm impedance 4001968-105		
		620 ohm impedance 4001968-102		
		Output Modules for the 8424		
4001893-101		4-Channel TTL Rate Drivers, Digital PPS	\$605	\$593
4001894-101		4-Channel Linear Driver, 10MHz/IRIG	\$605	\$593
4001895-101		2-Channel Wideband DC Amps, 10MHz/IRIG (Minimum order quantity 5)	\$605	\$593

Model 8451 Frequency Distribution Units				
Model		Description	Std. Price Ea	GSA Price With IFF
8451-6		Frequency Distribution Unit; (1) input, (12) outputs, (3) Vrms drive (AC Coupled for 100KHz to 15MHz)	\$3,300	\$3,234
8451-7		Frequency Distribution Unit; (1) input, (12) outputs, (3) Vrms drive (DC Coupled for DC including TTL to 15MHz)	\$3,300	\$3,234

Model 8460 Countdown Generator				
Model		Description	Std. Price Ea	GSA Price With IFF
8460-1		Range Countdown Generator	\$13,750	\$13,475

Model 8821 GPS Clock				
Model		Description	Std. Price Ea	GSA Price With Iff
8821A-12		1U Chassis w/display; 10MHz Output	\$2,850	\$2,793
8821A28		1U Chassis w/o display; 10MHz Output	\$2,350	\$2,303
8821 H-32		1U Chassis w/o display (4) 1-PPS & 10-MPPS	\$3,200	\$3,136

Model 8835 GPS Clock				
Model		Description	Std. Price Ea	GSA Price With Iff
8835-1		GPS Clock (Double Oven Crystal Oscillator 24VDC)	\$2,150	\$2,107
8835-2		GPS Clock (Double Oven Crystal Oscillator 48VDC)	\$2,150	\$2,107
8835-3		GPS Clock (Rubidium Oscillator)	\$4,050	\$3,969
4702695T		AC Pwr Supply (15V, 2.0A)	\$80	\$78
4008245-101		Mounting Shelf	\$130	\$127

TRAK P/N	L #	Description	Std Price Ea	GSA Price With IFF
1001661-157	L9N	5VDC Aromat antenna ,Lucent mount& "N"	\$425	\$417

1001661-163	L50N	100' 1/4" LMR 400 coaxial cable w/"N" connector	\$250	\$245
1001661-164	L51N	50' 1/4" LMR 400 coaxial cable w/"N" connector	\$350	\$343
1001661-165	L52N	200' 1/4" LMR 400 coaxial cable w/"N" connector	\$450	\$441
1001661-166	L60N	Lightning/surge suppressor	\$315	\$309
1001661-167	L70N	L9N, L60N & L50N	\$965	\$946
1001661-168	L71N	L9N, L60N & L51N	\$1,000	\$980
1001661-169	L72N	L9N, L60N & L52N	\$1,250	\$1,225
4700012		20dB In-Line Amp	\$325	\$319
1001661-131	L9A	12VDC Aromat antenna ,mast adaptor, TNC	\$425	\$417
1001661-209	L10A	L9A & 50' RG-58 coaxial cable	\$475	\$466
1001661-210	L11A	L9A & 100' RG-213 coaxial cable	\$800	\$784
1001661-150	L50	50' 1/4" LMR 400 coaxial cable w/TNC connector	\$250	\$245
1001661-151	L51	100' 1/4" LMR 400 coaxial cable w/TNC connector	\$350	\$343
1001661-152	L52	200' 1/4" LMR 400 coaxial cable w/TNC connector	\$450	\$441

1001661-160	L60	Lightning/surge suppressor	\$315	\$309
1001661-158	L70	L9A, L60 & L51	\$1,000	\$980
1001661-159	L71	L9A, L60 & L50	\$965	\$946
1001661-156	L72	L9A, L60 & L52	\$1,200	\$1,176
4702543	L9S	L1/L2 GPS Antenna for use with Model 9000S	\$665	\$652

Model 9100 Modular Frequency Time System (MTFS)				
Model		Description	Std Price Ea	GSA Price With IFF
9100MF (AC or DC)		Main Frame, 3U chassis	\$3,265	\$3,200
9101-3		GPS Ref Module (Rb oscillator)	\$5,690	\$5,576
9101-5		GPS Ref Module (Double oven oscillator)	\$2,575	\$2,524
9104-1		Fault Sense Unit	\$925	\$907
9104-9		Fault Sense Unit w/NTS&NTP	\$1,590	\$1,558
9106-1		Digital Distribution Module ³	\$515	\$505
9107-1		Frequency Distribution Module ⁴	\$620	\$608
9109-1		Sinewave Generator 5MHz	\$1,400	\$1,372
9111-1		Telecom, T1 ⁵	\$825	\$809
9111-2		Telecom, E1 ⁶	\$825	\$809
9114-1		Digital Rate Generator	\$2,060	\$2,019
9120-2		AC Power Supply	\$1,650	\$1,617
9121-1		DC Power Supply 20-60Vdc	\$1,650	\$1,617
9122-1		4-Ch Synthesizer (1 Hz to 50MHz; 1Hz steps)	\$1,290	\$1,264

Model 9200 Distribution Amplifier				
Model		Description	Std Price Ea	GSA Price With IFF
9200MF (AC or DC)		Main Frame, 3U Chassis	\$4,120	\$4,038
9220-1		AC Power Supply	\$1,650	\$1,617
9221-1		DC Power Supply (20-60Vdc)	\$1,650	\$1,617
9250-1		Terminator & Fault Logic Module	\$980	\$960

Model 9300 Distribution Amplifier				
Model		Description	Std Price Ea	GSA Price With IFF
9300MF		Main Frame, 3U Chassis	\$4,120	\$4,038
9350-1		Terminator & Fault Logic Module	\$980	\$960
9360-1		Input Interface Module	\$980	\$960
9120-2		AC Power Supply	\$1,650	\$1,617
9121-1		DC Power Supply 20-60Vdc	\$1,650	\$1,617

Oscillator		Phase Noise Data	Holdover Phase & Frequency Drift	Holdover Phase & Frequency Drift	Note
OCXO SC cut Double Oven		<-115 dBc @ 10 Hz offset <-135 dBc @ 100 Hz offset <-145 dBc @ 1 KHz offset <-150 dBc @ 10 KHz offset	<10 μ sec/day <5X10 ⁻¹⁰ /day	<10 μ sec/day <5X10 ⁻¹⁰ /day	Holdover @ operating temp of -30°C to +60°C
Rubidium		<-100 dBc @ 10 Hz offset <-125 dBc @ 100 Hz offset <-140 dBc @ 1 KHz offset <-145 dBc @ 10 KHz offset	<10 μ sec/week <1X10 ⁻¹¹ /day	<10 μ sec/week <1X10 ⁻¹¹ /day	Holdover @ operating temp of -30°C to +60°C

Model 9000 Modular Time Code Processor				
Model		Description	STD Price Ea	GSA Price With IFF
9000AN		Main Frame, 1U chassis (accepts 6 modules)	\$3,350	\$3,283
9000BN		Main Frame, 2U chassis (accepts 12 modules)	\$4,775	\$4,680
9000AM		Main Frame, 1U ruggedized chassis (accepts 6 modules)	\$3,575	\$3,504
9000S-1		Main Frame, 1U chassis (includes SAASM P(Y) receiver)	\$18,100	\$17,738
9000S		Main Frame, 2U chassis (includes SAASM P(Y) receiver)	\$19,125	\$18,743
Module				
9001-4		GPS Synchronizer w/GPS Antenna & 50' RG-58 cable	\$1,250	\$1,225
9001S		GPS Synchronizer (includes SAASM P(Y) receiver)	\$10,200	\$9,996
9002-1		Time Code Reader (A,B,G only)	\$915	\$897
9002-3		Time Code Reader (Fiber Optic)	\$2,040	\$1,999
9003-1		Auxiliary I/O	\$675	\$662
9003-2		Auxiliary I/O	\$675	\$662
9003-7		Auxiliary I/O w/NTP Server	\$1,530	\$1,499
9005-1		Time Code Generator (IRIG A&B Modulated & DC)	\$745	\$730

9005-2		Time Code Generator (IRIG E&G Modulated & DC)	\$745	\$730
9005-3		Time Code Generator (IRIG D&H Modulated & DC)	\$745	\$730
9005-4		Time Code Generator (IRIG B & NASA36 Modulated & DC)	\$745	\$730
9005-5		Time Code Generator (XR3 & 2137 Modulated & DC)	\$745	\$730
9005-6		Time Code Generator (HAVEQUICK & 800 KPPS)	\$745	\$730
9005-7		Time Code Generator (IRIG B&G Modulated & DC)	\$745	\$730
9005-8		Time Code Generator (IRIG E&H Modulated & DC)	\$745	\$730
9005-10		Time Code Generator (Fiber Optic)	\$2,040	\$1,999
9006-1		4-Channel Digital Driver	\$645	\$632
9007-1		4-Channel Differential Driver	\$510	\$500
9008-1		4-Channel Linear Driver	\$675	\$662

Model		Description	STD Price Ea	GSA Price With IFF
9009-1		Sinewave Generator (100Hz, 1KHz, 10KHz, 100KHz)	\$1,190	\$1,166
9009-2		Sinewave Generator (3.125, 6.25, 12.5, & 25KHz)	\$1,190	\$1,166
9009-3		Sinewave Generator (4 x 5MHz Outputs)	\$1,190	\$1,166
9009-4		Sinewave Generator (1x1MHz, 1x5MHz, & 2x10MHz Outputs)	\$1,190	\$1,166
9009-5		Sinewave Generator (4x1 0MHz outputs)	\$1,190	\$1,166
9009-8		Sinewave Generator (Low Phase Noise 4 x 10MHz Outputs)	\$1,300	\$1,274
9009-9		Sinewave Generator (Low Phase Noise 4 x 5MHz Outputs)	\$1,300	\$1,274
9010-1		2-Channel RS-232 Time	\$825	\$809
9011-1		Telecom Generator (T1 Twin BNC Connectors)	\$1,240	\$1,215
9011-2		Telecom Generator (E1 Twin BNC Connectors)	\$1,240	\$1,215
9011-3		Telecom Generator (T1 Terminal Block)	\$1,240	\$1,215
9011-4		Telecom Generator (E1 Terminal Block)	\$1,240	\$1,215
9011-5		Telecom Generator (T1 Wire Wrap)	\$1,240	\$1,215
9011-6		Telecom Generator (E1 Wire Wrap)	\$1,240	\$1,215
9012-1		Parallel Code Generator (PCB1-A (IRIG 205-87))	\$615	\$603
9012-2		Parallel Code Generator (Group Binary (Special))	\$615	\$603
9012-3		Parallel Code Generator (PBCD1-B (No Parity, No ID))	\$615	\$603
9012-4		Parallel Code Generator (PB1)	\$615	\$603
9013-1		Slow Code Generator	\$715	\$701
9014-1		Digital Rate Generator (Selectable 15 rates)	\$670	\$657
9014-2		Digital Rate Generator (2.4, 4.8, 9.6 & 19.2	\$670	\$657

		KPPS)		
9014-3		Digital Rate Generator (10PPS, 20PPS,1KPPS & 10MPPS)	\$670	\$657
9014-4		Digital Rate Generator (Four Special Fixed Rates)	\$670	\$657
9017-1		VHF Receiver/Synchronizer	\$1,600	\$1,568
9018-2		Rubidium oscillator (requires 2 slots)	\$5,660	\$5,547
9019-1		Network Time Server	\$1,290	\$1,264
9021-1		4-Channel Synthesizer	\$1,285	\$1,259

Oscillator		Phase Noise Data	Holdover Phase & Frequency Drift	Holdover Phase & Frequency Drift	Note
B4 OCXO AT cut		-100dBc @ 10 Hz -140dBc noise floor -40dBc harmonics -100dBc spurious	100 - 200 ns	100 - 200 ns	Std 8821A, 9000A
B12 OCXO SC cut low profile		-110dBc @ 10 Hz -150dBc noise floor -40dBc harmonics -100dBc spurious	80 - 100 ns	80 - 100 ns	Good stability, low profile. Std on 9000B Available on all other Models