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# Herrick Technology Laboratories, Inc.

## Price List



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## **General Information**

### **Pricing and Orders:**

Pricing provided in this document is “Most Favored Customer or U.S. Government” pricing. Additional discounts may be available for quantities greater than those listed. While every effort has been made to ensure the accuracy of this document, HTL reserves the right to change pricing, specifications, options and accessories without notice. Please contact your HTL representative or [Marketing@herricktechlabs.com](mailto:Marketing@herricktechlabs.com) for a quotation and the latest technical data.

### **Delivery:**

FOB Origin. Delivery of the products contained in this document is typical accomplished within 120 to 180 days after receipt and acceptance of an order. HTL recognizes that schedule requirements vary and in many cases is able to accommodate. Please contact your HTL representative or [Marketing@herricktechlabs.com](mailto:Marketing@herricktechlabs.com) with your requirements.

### **Payment Terms:**

As a small business HTL requests performance based payments per FAR-32-104(b)(c)(d). Payment schedules will be negotiated prior to award.

### **Warranty:**

HTL warrants products to be free from defects in materials and workmanship for a period of two (2) years from the date of shipment.

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### **Contact:**

Herrick Technology Laboratories, Inc.  
20201 Century Blvd.  
Suite 200  
Germantown, MD 20874  
Phone: (301) 972-2037  
Fax: (301) 972-1299  
[Marketing@herricktechlabs.com](mailto:Marketing@herricktechlabs.com)

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## HTLx

### Miniature Quad Transceiver



**HTLx Core Module**

Shown with Apple iPhone 6

#### **DESCRIPTION**

##### **Small Form-Factor Multichannel VHF/UHF/Microwave Transceiver**

The HTLx is a 4 channel Software Defined Radio designed to support various ES and EA missions.

- Extended frequency range 2 MHz-18000 MHz
- 4 Phase Coherent or Independent Transceivers (remotely configurable)
- Each channel can be remotely configured
- Integrated Selective Availability Anti-Spoofing Module (SAASM) GPS\*, Chip Scale Atomic Clock (CSAC) and (Inertial Navigation System (INS) device.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms. Upgradable via replacement of the digital board.
- Open Architecture including an SDK with Board Support Package and REDHAWK interface to enable rapid development of new capabilities.

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# HTLx

## Miniature Quad Transceiver

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLx		Miniature Quad VHF/UHF/Microwave Transceiver. Core Module	\$85,000.00	\$80,750.00	\$78,735.00
Optional SAASM GPS		SAASM GPS for HTLx Core Module	\$6,000.00	\$6,000.00	\$6,000.00
HTLx-FA		Miniature Quad VHF/UHF/Microwave Transceiver. Core Module mounted in Forced Air enclosure.	\$89,900.00	\$85,405.00	\$83,270.00
Optional SAASM GPS		SAASM GPS for HTLx-FA Forced Air enclosure	\$6,000.00	\$6,000.00	\$6,000.00

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## HTLx-T

### Miniature Quad Transceiver



#### HTLx T

Shown with Apple iPhone 6

#### **DESCRIPTION**

##### **Small Form-Factor Multichannel VHF/UHF Transceiver**

The HTLx-T is a 4 channel Software Defined Radio designed to support various ES and EA missions in the tactical environment.

- Extended frequency range 2 MHz-6000 MHz
- 4 Phase Coherent or Independent Transceivers (remotely configurable)
- Each channel can be remotely configured
- Integrated Selective Availability Anti-Spoofing Module (SAASM) GPS\*, Chip Scale Atomic Clock (CSAC) and (Inertial Navigation System (INS) device.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms. Upgradable via replacement of the digital board.
- Open Architecture including an SDK with Board Support Package and REDHAWK interface to enable rapid development of new capabilities.

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## HTLx-T

### Miniature Quad Transceiver

Model	Part Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLx-T	HTLx-T1012003	Miniature Quad VHF/UHF Transceiver, Tactical Package with Removable Media Module (RMM) without SAASM	\$89,900.00	\$85,405.00	\$83,270.00
HTLx-T	HTLx-T1022004	Miniature Quad VHF/UHF. Transceiver, Tactical Package with Removable Media Module (RMM)with SAASM	\$95,900.00	\$91,405.00	\$89,270.00

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## DR-4

### Small Form-Factor Wideband Recorder



**DR-4 Small Form-Factor Wideband Recorder Chassis**

#### ***DESCRIPTION***

##### **Small Form-Factor Wideband Recorder**

The DR-4 is an SSD array which is fully integrated with multiple radio transceivers to enable new and support existing recorder based Con-Ops.

- Fully integrated with the HTL Family of Miniature Transceivers
- Recorder Software details
  - Critically sampled frequency domain pre-detection data storage format maximizes record time
  - Archive recordings in frequency domain or time domain formats
  - OpenCL GPU accelerated time domain synthesis software provided by HTL
  - Recordings with precision timestamps and detailed metadata of the configuration and state of the Core Radio including user provided annotation
  - HTL developed software for controlling and monitoring recording, inspecting recorded content, offloading recorded data, and playing back recordings
- Non-Blocking PCIe Gen3 Switch for up to 4 COTS PCIe NVMe SSDs



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## DR-4

### Small Form-Factor Wideband Recorder

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
DR-4		Small Form Factor Wideband Recorder Chassis only does not include SSD's. 4 SSD's required, see options below	\$34,500.00	\$32,775.00	\$31,955.00
	DR-4/SSD1.92T	Lot of 4 SSD's. 1.92 TB Commercial Temp	\$5,785.00	\$5,495.00	\$5,360.00
	DR-4/SSD3.85T	Lot of 4 SSD's. 3.85 TB Commercial Temp	\$10,040.00	\$9,540.00	\$9,305.00
	DR-4/SSD6.40T	Lot of 4 SSD's. 6.40 TB Commercial Temp	\$43,950.00	\$41,755.00	\$40,715.00

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## HTLw

### Miniature Quad Transceiver



#### *DESCRIPTION*

##### **Small Form-Factor Multichannel Microwave Transceiver**

The HTLw is a 4 channel Software Defined Radio designed to support various missions.

- Extended frequency range: 2 MHz-18 GHz
- 1 GHz instantaneous BW / channel
- 4 Phase Coherent or Independent Transceivers; coherent ganging of multiple units supported by back-panel connectors
- Each channel can be remotely configured for Rx or Tx
- Ethernet or USB Control
- PDW and VRT 10 GigE Data via SFP+ connections
- Multi-unit coherency support

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## HTLw

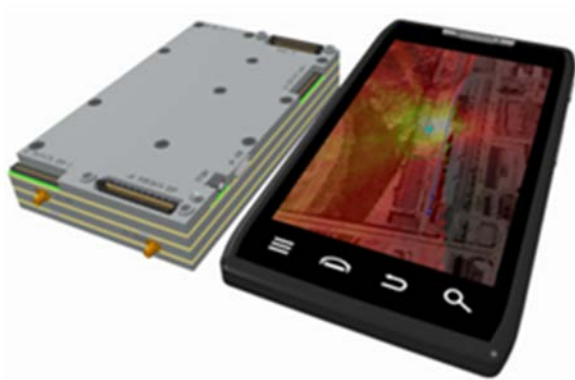
### Miniature Quad Transceiver

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLw		Miniature Quad VHF/UHF/Microwave Wideband Transceiver. Core Module	\$165,565.00	\$157,285.00	\$153,355.00
	910-00018-001	2U rackmount enclosure for HTLw. Provides power, reference, LO and control distribution for up to 4 HTLw core transceivers	\$49,505.00	\$47,030.00	\$45,855.00
Optional SAASM GPS		SAASM GPS for HTLw 2U rackmount enclosure	\$6,000.00	\$6,000.00	\$6,000.00

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## HTLs

### Miniature Dual Channel HF/VHF/UHF Transceiver



Core Module Shown



Handheld Configuration Shown

#### **DESCRIPTION**

#### **Miniature Dual Channel HF/VHF/UHF Transceiver**

The HTLs-2 is a 2 channel Software Defined Radio designed to support various ES and EA missions.

- Dual transceivers covering 2 MHz-6 GHz
- Optional, factory configured, 6-18GHz frequency extension
- Phase Coherent or Independent Tuners
- Each transceiver is simplex
- Integrated Chip Scale Atomic Clock (CSAC) and (Inertial Navigation System (INS) device, Optional Selective Availability Anti-Spoofing Module (SAASM) GPS.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms

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## HTLs

### Miniature Dual Channel HF/VHF/UHF Transceiver

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLs		Miniature Dual Channel HF/VHF/UHF Transceiver. Core Module	\$32,000.00	\$30,400.00	\$29,640.00
HTLs		Miniature Dual Channel HF/VHF/UHF Transceiver. Handheld Configuration	\$37,000.00	\$35,150.00	\$34,275.00
Optional SAASM GPS			Contact HTL	Contact HTL	Contact HTL

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# HOTSHOT

## Transceiver System

Shown with Motorola Razr XT910



The HOTSHOT system is an advanced SIGINT Transceiver Software Defined Radio (SDR) System based on the current HTLx product.

The HOTSHOT system combines two HTLx units into a single chassis. This provides an unprecedented intercept capability that takes full advantage of the low SWaP-C attributes of the HTLx. The HOTSHOT system builds upon the Herrick Tech Labs legacy QUICKSHOT system. QUICKSHOT, while providing robust signal processing capability, is limited in its copy capability. Leveraging Herrick Tech Labs high TRL implementations, HOTSHOT overcomes this limitation and provides detection, recognition, copy, geolocation, and other attributes of the signals of interest. Through the use of two HTLx core modules, HOTSHOT provides signal copy and DF on up to 320 MHz of instantaneous bandwidth.

Each HTLx core module provides four channels of 80 MHz bandwidth tune-able from 2 MHz to 18 GHz. These channels can be independently tuned or slaved together for Direction Finding (DF). An internal SAASM GPS and CSAC (Chip Scale Atomic Clock) support JICD 4.x TDOA/FDOA measurement accuracies for precision geolocation.

The HOTSHOT system is housed in a Short Form Half ATR Enclosure and is comprised of two HTLx core module assemblies and 8 channel RFD. HOTSHOT weighs approximately 20 pounds and draws 140 watts from a 28 VDC power source.

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# HOTSHOT

## Transceiver System

Model	Part Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HOTSHOT System		Software Defined VHF/UHF/Microwave Transceiver System.	\$425,000.00	\$403,750.00	\$393,660.00

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## **ENHANCED QUICKSHOT**

### **DF / TAS System**

**Model: HTL-1810-0001**



Herrick Tech Labs **Enhanced QUICKHOT System (EQS)** is a broadband, high performance signal interception and collection device designed to detect, DF and demodulate TAS emitters. Developed to support diverse mission scenarios, **Enhanced QUICKSHOT** is reconfigurable in theatre via selectable power-up software loads.

**EQS** is capable of collecting DF data on over 2000 signals simultaneously. Proven performance in the air demonstrates the versatility of the underlying Direction Finding (DF) and geo-location techniques. The system's ease of use make it well suited for low-profile missions where installation and SWAP constraints are crucial.

The **EQS** contains a wideband (60 MHz) two-channel receiver, a VIRTEX V FPGA and TI TMS320C-6455 based DSP processor, and a SBC controller. **EQS** is controlled via Ethernet from a laptop PC running the HTLook<sup>®</sup> application for TAS acquisition and HTFind<sup>®</sup> for TAS geo-location.

The **EQS** can be programmed to scan up to eight independently defined 60 MHz bands. **EQS** can operate anywhere within the 20 to 3000 MHz band. The **EQS** system can have an internal DF switch or an external switch to allow it interface with the platforms DF antenna array. System software supports DF calibration of nonstandard arrays.



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## **ENHANCED QUICKSHOT**

### **DF / TAS System**

#### **Model: HTL-1810-0001**

Model	Part Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
Enhanced QUICKSHOT	HTL-1810-0001	Enhanced QUICKSHOT, DF/TAS System (EQS)	\$195,000.00	\$185,250.00	\$180,620.00

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## QSY-2 System

Model: HTL-2100



Programmable signal environment generator for ES/EA system calibration, performance evaluation, and operator training.

QSY-2 supports 64 simultaneous tactical comms nets, each net having up to 8 members.

Signal scenarios can be created using the included Scenario Generation Tool and loaded on the QSY-2 using the **HTNet**<sup>®</sup> software application.

4 programmable beamformer outputs support DF antenna array simulation so each emitter can have an assigned line-of-bearing.

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## QSY-2 System

### Model: HTL-2100

Model	Part Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
QSY-2 System	HTL-2100	Programmable signal environment generator for ES/EA system calibration, performance evaluation, and operator training. Includes the HTNet® software application for scenario generation.	\$106,505.00	\$101,180.00	\$98,655.00