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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 for a quotation and the latest technical data.

Delivery:

FOB Origin. Delivery of the products contained in this document is typically 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. Purchase of the optional SAASM GPS requires proof of having COMSEC/STARS account and demonstrable ability to handle SAASM devices at the time of delivery. Please contact your HTL representative or 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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HTLx Core Module; HTLx-U

Miniature Quad Transceiver



HTLx Core Module
Shown with Apple iPhone 6



HTLx with Universal Enclosure (HTLx-U)

DESCRIPTION

Small Form-Factor Multichannel HF/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
- 80 MHz IFBW (320 MHz total coverage)
- 80+dB SFDR
- 4 Phase-Coherent or Independently tuned Transceivers (remotely configurable)
- Integrated commercial GPS with INS, optional SAASM, low noise CSAC.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.
- 2x10GbE Ethernet ports for high speed data transfer.
- Wideband recorder Interface port.

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- Optional Removable Media Module (RMM)
- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.
- HTLx-U is the HTLx core integrated in the Universal tactical package, which is ideal for rugged mobile applications where IP67 water-immersion resistance is not required.

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	\$89,000.00	\$84,550.00	\$82,770.00
HTLx-U		Miniature Quad VHF/UHF/Microwave Transceiver. Core Module mounted in the Universal Enclosure	\$105,000.00	\$99,750.00	\$97,650.00
SAASM GPS		Optional SAASM GPS for HTLx Core Module. Factory installed	\$6,000.00	\$6,000.00	\$6,000.00
HTLx-U/RMM		Removable Media Module for HTLx-U	\$2,000.00	\$2,000.00	\$2,000.00

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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. Note: This package is optimized for operations in a small SWAP environment. As such, not all HTLx I/O are available in this configuration.”

- Extended frequency range 2 MHz-6000 MHz
- 80 MHz IFBW (320 MHz total coverage)
- 80+dB SFDR
- 4 Phase-Coherent or Independently tuned Transceivers (remotely configurable)

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- Integrated commercial GPS with INS, optional SAASM, low noise CSAC.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.
- Optional Removable Media Module (RMM)
- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.
- Environmentally rugged electronics' enclosure qualified for IP67 water immersion at 1 meter for 30 minute duration

HTLx-T

Miniature Quad Transceiver

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLx-T		Tactical Miniature Quad VHF/UHF Transceiver 2 MHz to 6000 MHz	\$99,000.00	\$94,050.00	\$92,070.00
SAASM GPS		Optional SAASM GPS for HTLx Core Module. Factory installed	\$6,000.00	\$6,000.00	\$6,000.00
HTLx-T/RMM		Removable Media Module for HTLx-T	\$3,800.00	\$3,800.00	\$3,800.00

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HTLx-T2

Miniature Quad Transceiver



HTLx-T2

DESCRIPTION

Small Form-Factor Multichannel VHF/UHF Transceiver

The HTLx-T2 is a 4 channel Software Defined Radio designed to support various ES and EA missions in the tactical environment.

- Extended frequency range 2 MHz-18000 MHz
- 80 MHz IFBW (320 MHz total coverage)
- 80+dB SFDR
- 4 Phase-Coherent or Independently tuned Transceivers (remotely configurable)
- Integrated commercial GPS with INS, optional SAASM, low noise CSAC.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.

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- 2x10GbE Ethernet ports for high speed data transfer.
- Wideband recorder Interface port.
- Optional Removable Media Module (RMM)
- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.
- Environmentally rugged electronics enclosure qualified for IP67 water immersion at 1 meter for 30 minute duration

HTLx-T2

Miniature Quad Transceiver

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLx-T2		Tactical Miniature Quad VHF/UHF Transceiver 2 MHz to 18 GHz	\$114,000.00	\$108,300.00	\$106,020.00
SAASM GPS		Optional SAASM GPS for HTLx-T2, Factory Installed	\$6,000.00	\$6,000.00	\$6,000.00
HTLx-T2/RMM		Removable Media Module for HTLx-T2	\$2,000.00	\$2,000.00	\$2,000.00

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DF1

Switched 4 Element 20 MHz-6 GHz DF Antenna



DF1

DF1 System Block

DESCRIPTION

Switched 4 Element 20 MHz-6 GHz DF Antenna

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

- 20 MHz – 6 GHz Coverage
- DF Accuracy < 5 degrees
- 2 Channels: 1 Switched 4 Element + 1 Omni
- Low SWAP
- Supports On-the-Move (OTM), At-the-Halt (ATH), and Fixed-Mount Collection & Geolocation
- Quick-Connect single connector and coupling nut mating

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DF1

Switched 4 Element 20 MHz-6 GHz DF Antenna

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
DF1		Switched 4 Element 20MHz-6GHz DF Antenna	\$35,400.00	\$33,630.00	\$32,922.00
Monopod 6'		Telescopic Monopod, integrated 6' (OAL) radio-DF interface cable (RF, Power, & Control)	\$5,110.00	\$4,854.50	\$4,752.30
Monopod 12'		Telescopic Monopod, integrated 12' (OAL) radio-DF interface cable (RF, Power, & Control)	\$5,545.00	\$5,267.75	\$5,156.85
Fixed-Mount 6'		Fixed-Mount DF Interface 6' radio-DF interface cable (RF, Power, & Control)	\$5,600.00	\$5,320.00	\$5,208.00
Fixed mount 12'		Fixed-Mount DF Interface 12' radio-DF interface cable (RF, Power, & Control)	\$5,923.00	\$5,626.85	\$5,508.39
Breakout Cable		Breakout (MIL-CIRC) to SMA Cable Kit to be used with HTLx-U	\$2,460.00	\$2,337.00	\$2,287.80

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Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
DF1		Switched 4 Element 20MHz-6GHz DF Antenna	\$35,400.00	\$33,630.00	\$32,922.00
Monopod 6'		Telescopic Monopod, integrated 6' (OAL) radio-DF interface cable (RF, Power, & Control)	\$5,110.00	\$4,854.50	\$4,752.30
Monopod 12'		Telescopic Monopod, integrated 12' (OAL) radio-DF interface cable (RF, Power, & Control)	\$5,545.00	\$5,267.75	\$5,156.85
Fixed-Mount 6'		Fixed-Mount DF Interface 6' radio-DF interface cable (RF, Power, & Control)	\$5,600.00	\$5,320.00	\$5,208.00
Fixed mount 12'		Fixed-Mount DF Interface 12' radio-DF interface cable (RF, Power, & Control)	\$5,923.00	\$5,626.85	\$5,508.39
Breakout Cable		Breakout (MIL-CIRC) to SMA Cable Kit to be used with HTLx-U	\$2,460.00	\$2,337.00	\$2,287.80

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DR-4

Small Form-Factor Wideband Recorder



DR-4 Small Form-Factor Wideband Recorder (shown with HTLx-U)

DESCRIPTION

Small Form-Factor Wideband Recorder

The DR-4 is an SSD array which is interoperable with multiple HTL radio transceivers to support a variety of recorder-based ConOps.

- Interoperable with HTLx & HTLw based systems to provide RF record/RF playback capability from 2 MHz to 18 GHz
 - HTLx: Record/playback one to four 80 MHz channels
 - HTLw: Record/playback one 1000 MHz channel
- Recorded data is precision time-stamped
- Low SWaP recorder: 2U, 3.47”H x 5.65”W x 9.5”D, 3.4 lbs (with SSDs), 50W typical
- Four removable COTS 2.5” PCIe NVMe SSDs

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- Selectable Recording Bandwidth:
 - HTLx: 80,70, 60, 50, 40, 30, 20, 18, 10, 5 and 1.25 MHz
 - HTLw: 1000, 500, 250, and 100 MHz
- Thunderbolt 3.0 Data Offload

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. Qty 4 SSD's required (see SSD options below).	\$29,000.00	\$27,550.00	\$26,970.00
DR-4/SSD1.92T		Lot of 4 SSD's. 1.92 TB Commercial Temp mounted in removable trays.	\$7,000.00	\$6,650.00	\$6,510.00
DR-4/SSD3.84T		Lot of 4 SSD's. 3.84 TB Commercial Temp mounted in removable trays.	\$13,000.00	\$12,350.00	\$12,090.00

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HTLw

Miniature Quad Transceiver



HTLw Core Module

Shown with Apple iPhone 6



HTLw with Universal Enclosure (HTLw-U)

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-18000 MHz
- 1 GHz instantaneous BW / channel, 4 GHz total.
- 80+dB SFDR
- 4 Phase-Coherent or Independently Tuned Transceivers (remotely configurable). Multi-unit coherency support
- Integrated commercial GPS with INS, optional SAASM, low noise CSAC.
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.
- 2x10GbE Ethernet ports for high speed data transfer.
- Wideband recorder Interface port.
- Optional Removable Media Module (RMM)

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- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.
- HTLw-U is the HTLw core integrated in the Universal tactical package, which is ideal for rugged mobile applications where IP67 water-immersion resistance is not required.

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.	\$133,000.00	\$126,350.00	\$123,690.00
HTLw-U		Miniature Quad VHF/UHF/Microwave Wideband Transceiver mounted in the Universal Enclosure w/ Commercial Front Panel.	\$149,000.00	\$141,550.00	\$138,570.00
SAASM GPS		Optional SAASM GPS for HTLw-U. Factory installed.	\$6,000.00	\$6,000.00	\$6,000.00
HTLw-U/RMM		Removable Media Module for HTLw-U.	\$2,000.00	\$2,000.00	\$2,000.00

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HTLv-1

3U VPX Quad Transceiver Module



HTLv-1, 3U VPX Quad Transceiver Module

DESCRIPTION

3U OpenVPX Quad Channel HF/VHF/UHF Transceiver Module

The HTLv-1 is a multichannel Software Defined Radio packaged as a 3U REDI/VITA 67.3 conduction-cooled VPX module designed to support various missions.

- Extended Frequency range 2 MHz – 6 GHz
- 80 MHz IFBW (320 MHz total coverage)
- 80+dB SFDR

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- 4 Phase-Coherent or Independently tuned Transceivers (remotely configurable)
- Pluggable Unit-to-Unit Coherency Via OpenVPX Backplane VITA 67.3
- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.
- Processors Linked together through SERDES Transceivers and Hybrid Memory Cube
- Platform enables high performance signal processing applications against modern waveforms.
- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.

HTLv-1

3U VPX Quad Transceiver Module

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLv-1		3U VPX Quad Transceiver Module, 2 MHz to 6 GHz	\$39,000.00	\$37,050.00	\$36,270.00

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HTLv-2

3U VPX Dual Transceiver Module



HTLv-2, 3U VPX Dual Transceiver Module

DESCRIPTION

3U OpenVPX Dual Channel HF/VHF/UHF/Microwave Transceiver Module

The HTLv-2 is a multichannel Software Defined Radio packaged as a 3U REDI/VITA 67.3 conduction-cooled VPX module designed to support various missions.

- Extended Frequency range 2 MHz – 20 GHz
- 80 MHz IFBW (320 MHz total coverage)
- 80+dB SFDR
- 2 Phase-Coherent or Independently tuned Transceivers (remotely configurable)
- Pluggable Unit-to-Unit Coherency Via OpenVPX Backplane VITA 67.3

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- High performance FPGA including integrated ARM9 cores with NEON coprocessors enable high performance signal processing applications against modern waveforms.
- Processors Linked together through SERDES Transceivers and Hybrid Memory Cube
- Platform enables high performance signal processing applications against modern waveforms.
- Open Architecture including an SDK with Board Support Package to enable rapid development of new capabilities.

HTLv-2

3U VPX Dual Transceiver Module

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLv-2		3U VPX Dual Transceiver Module, 2 MHz to 20 GHz	\$48,750.00	\$46,312.50	\$43,070.63

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PNTRv

3U VPX Reference Module



PNTRv, 3U VPX Reference Module

DESCRIPTION

3U OpenVPX Precision Navigation and Timing Reference Module

The PNTRv design requirements were derived from the Joint Airborne SIGINT Architecture (JASA) specification. The key specifications of interest for the design of the PNTR from the JASA specification follow. It should be noted that JASA defines a Threshold and an Objective set of requirements.

- Provides low noise 100 MHz reference using Low Noise Chip Scale Atomic Clock (LNCSAC)
- Integrated inertial navigation system (INS) with GPS
- Optional SAASM GPS available with RS232 key fill connectivity
- 100 MHz outputs
- Programmable 250 MHz outputs
- Output 1 PPS synchronous to 100MHz
- On board antenna switching to devices
- 1 GbE Control Interface to OpenVPX Backplane

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PNTRv

3U VPX Reference Module

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
PNTRv		3U VPX Precision Navigation and Reference Module	\$35,400.00	\$33,630.00	\$31,275.90
SAASM GPS		Optional SAASM GPS for PNTRv-A. Factory Installed	\$6,000.00	\$6,000.00	\$6,000.00

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HTLv-C



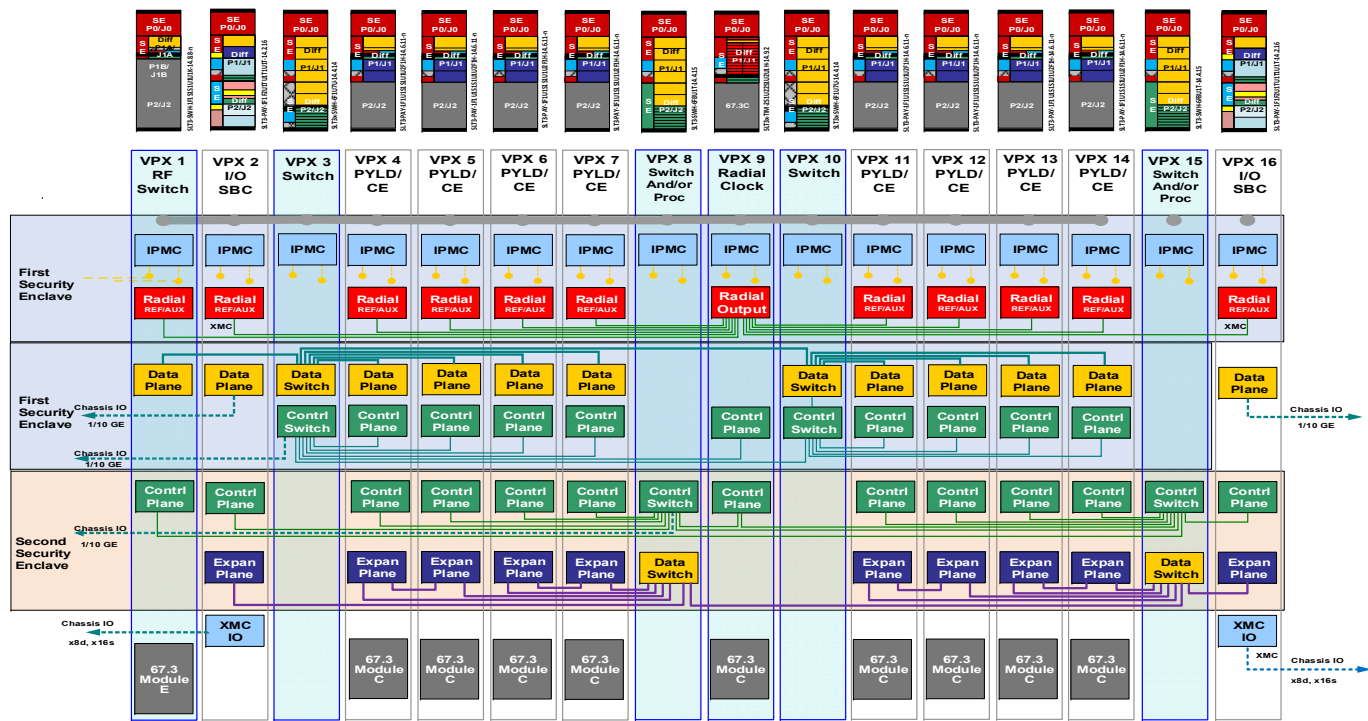
**Front panel view of hybrid High Performance Embedded Compute (HPEC) Chassis
with 16 channels of Narrow Band Transceivers**

DESCRIPTION

The HTLv-C is a 3U VPX reference chassis, designed per Technical Standard for Sensor Open Systems Architecture (SOSA™) Reference Architecture, Version 1.0, dated September 7, 2017:

- 16-Slot, 3U VPX Chassis
- Designed per Technical Standard for Sensor Open Systems Architecture (SOSA™) Reference Architecture, Version 1.0 , Sep 7, 2017
- Available Precision Navigation, Timing, and Reference Module (HTL PNTRv)
- Available 3U VPX Transceiver Modules:
 - Supports Independent or Phase Coherent Channels
 - 4-Channel; RX / TX; 2 MHz – 6 GHz (HTLv-1)
 - 2-Channel; RX / TX; 2 MHz – 20 GHz (HTLv-2)
- 1/10 GigE Data Interfaces
- 1 GbE Control Interface to OpenVPX Backplane

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16 Slot Backplane

HTLv-C

3U VPX Chassis

Model	Part Number / Option Number	Description	Unit Price		
			1 to 5	6 to 15	16 to 25
HTLv-C		3U VPX Chassis and Backplane, includes chassis manager and system support module	\$99,000.00	\$94,050.00	\$92,070.00