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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.

Export:
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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

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**HTLx Core Module; HTLx-U**  
Miniature Quad Transceiver

**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 to 5</td>
</tr>
<tr>
<td>HTLx</td>
<td>Miniature Quad VHF/UHF/Microwave Transceiver. Core Module</td>
<td>$89,000.00</td>
</tr>
<tr>
<td>HTLx-U</td>
<td>Miniature Quad VHF/UHF/Microwave Transceiver. Core Module mounted in the Universal Enclosure</td>
<td>$105,000.00</td>
</tr>
<tr>
<td>SAASM GPS</td>
<td>Optional SAASM GPS for HTLx Core Module. Factory installed</td>
<td>$6,000.00</td>
</tr>
<tr>
<td>HTLx-U/RMM</td>
<td>Removable Media Module for HTLx-U</td>
<td>$2,000.00</td>
</tr>
</tbody>
</table>
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**HTLx-T2**

*Miniature Quad Transceiver*

**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 to 5 6 to 15 16 to 25</td>
</tr>
<tr>
<td>HTLx-T2</td>
<td></td>
<td>Tactical Miniature Quad VHF/UHF Transceiver 2 MHz to 18 GHz</td>
<td>$114,000.00 $108,300.00 $106,020.00</td>
</tr>
<tr>
<td>SAASM GPS</td>
<td></td>
<td>Optional SAASM GPS for HTLx-T2, Factory Installed</td>
<td>$6,000.00 $6,000.00 $6,000.00</td>
</tr>
<tr>
<td>HTLx-T2/RMM</td>
<td></td>
<td>Removable Media Module for HTLx-T2</td>
<td>$2,000.00 $2,000.00 $2,000.00</td>
</tr>
</tbody>
</table>
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**DF1**

**Switched 4 Element 20 MHz-6 GHz DF Antenna**

**DESCRIPTION**

Switched 4 Element 20 MHz-6 GHz DF Antenna

The HTL DF1 is a man portable DF antenna with a broad frequency coverage (20 MHz–6.0 GHz) and small size. It is designed to work with the HTL series of receivers including the HTLx, HTLx-T2, HTLw and the HPack system. It is intended to provide directional information on RF emitters. It features low swap and high accuracy.

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

**DF1**

**Switched 4 Element 20 MHz-6 GHz DF Antenna**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1 to 5</td>
</tr>
<tr>
<td>DF1</td>
<td></td>
<td>Switched 4 Element 20MHz-6GHz DF Antenna</td>
<td>$35,400.00</td>
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<tr>
<td>Monopod 6'</td>
<td></td>
<td>Telescopic Monopod, integrated 6' (OAL) radio-DF interface cable (RF, Power, &amp; Control)</td>
<td>$5,110.00</td>
</tr>
<tr>
<td>Monopod 12'</td>
<td></td>
<td>Telescopic Monopod, integrated 12' (OAL) radio-DF interface cable (RF, Power, &amp; Control)</td>
<td>$5,545.00</td>
</tr>
<tr>
<td>Fixed-Mount 6'</td>
<td></td>
<td>Fixed-Mount DF Interface 6' radio-DF interface cable (RF, Power, &amp; Control)</td>
<td>$5,600.00</td>
</tr>
<tr>
<td>Fixed mount 12'</td>
<td></td>
<td>Fixed-Mount DF Interface 12' radio-DF interface cable (RF, Power, &amp; Control)</td>
<td>$5,923.00</td>
</tr>
<tr>
<td>Breakout Cable</td>
<td></td>
<td>Breakout (MIL-CIRC) to SMA Cable Kit to be used with HTLx-U</td>
<td>$2,460.00</td>
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</table>

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**HTL-Manpack (HPACK)**

Manpack System Block Diagram
DESCRIPTION

Manpack System: Modular & Expandable system of soldier-worn & portable, rugged SIGINT system components which can be configured to meet various manpack system mission requirements.

- Next generation manpack SIGINT Transceiver System is centered around the HTLx-T2 which is based on the HTLx small SWaP-C Software Defined Radio (SDR) wideband transceiver.
- Manpack System is designed to meet the rugged tactical and environmental demand of dismounted and true OTM missions.
- Manpack System provides everything needed to perform Collection and Geolocation missions in a single package for standalone operations or as part of a distributed processing system.
- Manpack (one man carry) for OTM and ATH operation
- SIGINT mission support, including:
  - Detection, Identification, Copy and Dissemination of TAS, TCS and TOS SOI
  - Electronic Support (ES) and capable of Special Purpose Electronic Attack (SPEA)
- Geolocation
  - Single sensor DF, OTM and ATH
  - Contributor to TNG network by acting as JICD 4.2 TDOA/FDOA collector node or by providing complete geo solutions within a network of cooperative sensors
- Primary user interface is Getac T800, rugged Windows tablet
  - Optional Android GOTS open framework ATAK interface
- Interoperable with COTS MANET and GOTS COMMs devices

HPack

Manpack System

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-Pack</td>
<td>HTL Tactical Manpack ESM System</td>
<td>$190,000.00 $180,500.00 $176,700.00</td>
</tr>
</tbody>
</table>

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**DR-4**

**Small Form-Factor Wideband Recorder**

**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
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<td></td>
<td></td>
<td></td>
<td>1 to 5</td>
</tr>
<tr>
<td>DR-4</td>
<td></td>
<td>Small Form Factor Wideband Recorder Chassis only. Does not include SSD's. Qty 4 SSD's required (see SSD options below).</td>
<td>$29,000.00</td>
</tr>
<tr>
<td>DR-4/SSD1.92T</td>
<td></td>
<td>Lot of 4 SSD's. 1.92 TB Commercial Temp mounted in removable trays.</td>
<td>$7,000.00</td>
</tr>
<tr>
<td>DR-4/SSD3.84T</td>
<td></td>
<td>Lot of 4 SSD's. 3.84 TB Commercial Temp mounted in removable trays.</td>
<td>$13,000.00</td>
</tr>
</tbody>
</table>

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**HTLw Core Module; HTLw-U**

**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-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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Description</th>
<th>Unit Price</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>HTLw</td>
<td>Miniature Quad VHF/UHF/Microwave Wideband Transceiver. Core Module.</td>
<td>$133,000.00</td>
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<tr>
<td>HTLw-U</td>
<td>Miniature Quad VHF/UHF/Microwave Wideband Transceiver mounted in the Universal Enclosure w/ Commercial Front Panel.</td>
<td>$149,000.00</td>
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<tr>
<td>SAASM GPS</td>
<td>Optional SAASM GPS for HTLw-U. Factory installed.</td>
<td>$6,000.00</td>
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<tr>
<td>HTLw-U/RMM</td>
<td>Removable Media Module for HTLw-U.</td>
<td>$2,000.00</td>
</tr>
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</table>
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**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTLv-1</td>
<td></td>
<td>3U VPX Quad Transceiver Module, 2 MHz to 6 GHz</td>
<td>$39,000.00 $37,050.00 $36,270.00</td>
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</table>

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**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
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<td>HTLv-2</td>
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<td>3U VPX Dual Transceiver Module, 2 MHz to 20 GHz</td>
<td>$48,750.00</td>
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<td>$46,312.50</td>
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<td>$43,070.63</td>
</tr>
</tbody>
</table>

Effective March 2019
**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**

<table>
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<tr>
<th>Model</th>
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<tr>
<td></td>
<td></td>
<td>3U VPX Precision Navigation and Reference Module</td>
<td>$35,400.00 $33,630.00 $31,275.90</td>
</tr>
<tr>
<td>PNTRv</td>
<td></td>
<td>Optional SAASM GPS for PNTRv-A. Factory Installed</td>
<td>$6,000.00 $6,000.00 $6,000.00</td>
</tr>
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</table>
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**HTLv-C-19**

**DESCRIPTION**
The HTLv-C-19 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:

- 19-Slot, 3U VPX Chassis
- 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

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- 1 GbE Control Interface to OpenVPX Backplane

16 Slot Backplane
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# HTLv-C

## 3U VPX Chassis

| Model           | Part 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  |
| 3UVPx Power Supply 650W | Module 3UVPx Power Supply (VITA62) 650W, 48.2 cond Cooled | $11,000.00  |
|                 |                                                                         | $10,450.00  |
|                 |                                                                         | $10,230.00  |
| 3UVPx IO SBC    | Module 3UVPx IO SBC, w/XMS                                              | $30,000.00  |
|                 |                                                                         | $28,500.00  |
|                 |                                                                         | $27,900.00  |
| 3UVPx Ethernet Switch | Module 3UVPx Ethernet Switch, 12 port Victory-Compliant, 48.2       | $35,000.00  |
|                 |                                                                         | $33,250.00  |
|                 |                                                                         | $32,550.00  |
| 3UPCIE Switch   | Module 3U,PCIE Switch                                                   | $11,000.00  |
|                 |                                                                         | $10,450.00  |
|                 |                                                                         | $10,230.00  |
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**HTL-S**

**DESCRIPTION**
The HTL-s Device consists of a tactical enclosure housing a core HTL transceiver, HTL power amplifier and other required hardware. The device runs HTL software to perform communications while offering a size, weight and power profile comparable to a commercial maritime radio. The device can be operated through front panel controls with a front panel display or through a connected HTL Communications End User Device (EUD).

**HTLs**

**HTLs Device hosting Slipstream application**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Description</th>
<th>Unit Price</th>
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<tbody>
<tr>
<td>HTLs (Slipstream)</td>
<td>HTLs Device hosting Slipstream application</td>
<td>$31,500.00</td>
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<table>
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<td>$29,925.00</td>
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<td>$29,295.00</td>
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**HTL Lightweight SATCOM Antenna and Amplifier Kit**

![Image of HTL Lightweight SATCOM Antenna and Amplifier Kit]

**DESCRIPTION**
The HTL Lightweight SATCOM Antenna Kit contains a collapsible pocket-sized antenna for the 240-318 MHz frequency band and a 10-watt power amplifier in a tactical enclosure. All cables required to attach the antenna and the power amplifier to an HTL device are included.

**HTL Lightweight Antenna and Amplifier Kit**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price</th>
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<tr>
<td>Satcom Antenna Kit</td>
<td>Satcom Antenna Kit</td>
<td>$4,800.00</td>
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<td>Amplifier Kit</td>
<td>AmplifierKit</td>
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<td>$18,050.00</td>
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</table>

Effective March 2019
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**HTL Lightweight SATCOM Antenna Kit**

**DESCRIPTION**
The HTL Lightweight SATCOM Antenna Kit contains a collapsible pocket-sized antenna for the 240-318 MHz frequency band. The antenna weighs under two pounds. All cables required to attach the antenna to an HTL device are included.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Option Number</th>
<th>Description</th>
<th>Unit Price 1 to 5</th>
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<tbody>
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<td>Satcom Antenna Kit</td>
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<td>Satcom Antenna Kit</td>
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</table>

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**HTL Communications End User Device (EUD) Kit**

![HTL Communications EUD Kit Tablet](image)

Cables and carrying case are not shown

**DESCRIPTION**

The HTL Communications End User Device (EUD) Kit contains a ruggedized tablet computer running the Microsoft Windows operating system and the cables required to connect the tablet to an HTL device. The tablet weighs less than two pounds, features an eight-inch display visible in both dark and bright light conditions, and complies with MIL-STD 810G for environmental design.

The EUD Kit will run HTL Communications software required for HTL Communications devices. Carrying case and power supply are included.
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**HTL Communications EUD Kit Tablet**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number / Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
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Effective March 2019