Lanner Whitebox Solutions and Turnium Technology Group Inc have partnered to deliver a robust universal customer premise equipment (CPE) solution that provides private, secure multi-site networking, link aggregation or bonding with session preservation, and seamless wireless failover options.

Multi-site business and enterprise need cost-effective, reliable internet and networks at every office, branch, warehouse, and fleet vehicle. Lanner and Turnium deliver multi-carrier network bonding, including wireless failover, at each customer location to deliver a complete business continuity solution.

The package includes Lanner's L-1516 platform with Intel® Atom® C3000 processor, onboard LTE or 5G modems, and Turnium’s network bonding software. This combination enables enterprises, telecommunications, and internet service providers to deploy multi-carrier and multi-transport customer networks easily and quickly.

Lanner has a portfolio of CPE devices supporting S-M-L-XL deployments that range from Atom – Xeon performance.

**Lanner uCPE L-1516 Product Features**

- 4~16 Core Intel® Atom C3000 CPU
- DDR4 1866/2133/2400 MHz, Max. 64GB
- 6x GbE RJ45 (w/ 2x PoE+ Option), 2x 10GbE SFP+, with SR-IOV and DPDK support
- 1x RJ45 Console, 2x USB 3.0, 1x Mini-PCIe, 3x M.2
- mPCIe Expansion Slot for Edge AI Accelerator (Intel Movidius)
- Support for mmWave & Sub-6GHz 5G
- Intel® QuickAssist Technology
Turnium Network Bonding

- Multi-site private, routed networking solution
- >90% link aggregation / bonding efficiency from multiple transport circuits (xDSL, Cable, Fiber, Fixed Wireless, 3G/4G/LTE/5G)
- Sub-second failover across multiple bonded circuits with IP address management maintains voice, video, and application sessions
- Per-packet load balancing across multiple circuits
- Bi-directional encryption (AES128, AES256)
- Bandwidth Adaptation to mitigate the effects of network congestion
- Quality of Service

Bare metal (Debian, openSUSE Leap), virtual, and container (Kubernetes, Red Hat OpenShift®) deployments
- Active/active or active/standby with multiple WAN circuits for all circuit types
- Multi-tenanted application support multiple customers and sites per core node
- Centralized Management Server for remote command, control, configuration and reporting
- RESTful API for integration into existing network management, reporting, and billing systems

Ordering Information
Order online: www.whiteboxsolution.shop

<table>
<thead>
<tr>
<th>SKU</th>
<th>PN</th>
<th>Spec</th>
<th>Variants</th>
<th>Bundle</th>
<th>Accessories</th>
<th>Excludes</th>
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<td>Small with LTE (NA/EMEA)</td>
<td>MN: L-1515B-4C-8E-128M-C1-TN1</td>
<td>128G SSD, 6 port GBE, 2 port SFP, SRI0V (5G), w/TPM2.0. Includes LTE kit &amp; fixed BIOS &amp; DMIT table settings.</td>
<td>1612B: 4G C3959 (Davenport), 8GB DDR4 2400 ECC</td>
<td>Turnium Network Bonding - 12 month subscription</td>
<td>Rack Mount Kit, Standard black nameplate</td>
<td>WiFi module, SW image load, All other accessories sold separately</td>
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<td>Medium with LTE (NA/EMEA)</td>
<td>MN: L-1515A-8C-16E-128M-C1-TN1</td>
<td>128G SSD, 6 port GBE, 2 port SFP, SRI0V (3G), w/TPM2.0. Includes LTE kit &amp; fixed BIOS &amp; DMIT table settings.</td>
<td>1512F: 8C C3959 (Davenport), 16GB DDR4 2400 ECC</td>
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<td>1515F: 16C C3959 (Davenport), 6GB DDR4 2400 ECC</td>
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<td>Small Broadband (no LTE)</td>
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**Turnium SW Bonding Tool**

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<th>PN</th>
<th>Details</th>
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</table>
| Turnium SW Bonding Tool | MN: TBD | Turnium Network Bonding option - SW only 12 month subscription  
- Multi-site private, routed networking solution  
- >90% link aggregation / bonding efficiency from multiple transport circuits (xDSL, Cable, Fiber, Fixed Wireless, 3G/4G/LTE/5G)  
- Sub-second failover across multiple bonded circuits with IP address management maintains voice, video, and application sessions  
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