Lanner

uCPE Solution for Secure Networking and Wireless Failover

PARTNER BRIEF

turnium
by TTGI.io

WHITEBOX SOLUTIONS™

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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-1515 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-1515 Product Features

- Intel® Atom® C3000 Processor (Denverton)
- Max. 4x RJ45, 2x SFP & 2x RJ45 (By SKU)
- 2x 260-pinDDR4 2400/2133/1866MHz ECC/Non-ECC SODIMM (by SKU), Max. 64GB
- Design ready for 5G Sub-6 and WiFi 6
- 1x RJ45 Console, 2x USB 2.0
- 2x Mini-PCIe, 1x M.2 2242 B Key, 2x Nano SIM for M.2
- 1x 2.5" Drive Bay (Optional)
- Supports TPM 2.0
- 1 x Cooling Fan w/ Smart Fan (SKU A~E) or 2 x Cooling Fans w/ Smart Fan (SKU F)

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
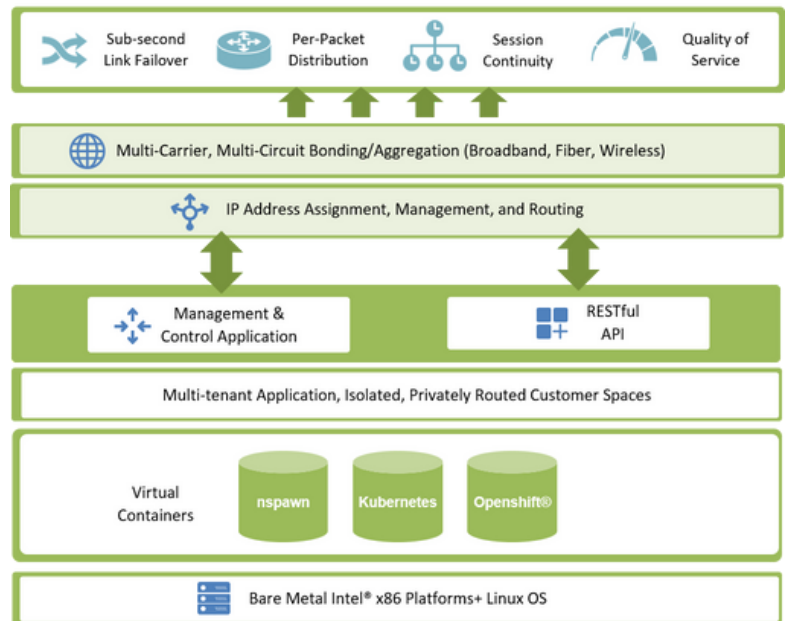
Ordering Information   Order online: www.whiteboxsolution.shop

SKU	PN	Spec	Variants	Bundle	Accessories	Excludes
Small with LTE (NA/EMEA)	MN: L-1515B-4C-8E-128M-C1-TN1	128G SSD, 6 port GBE, 2 port SFP, SRIOV (i350), w/TPM2.0. Includes LTE kit & fixed BIOS & DMIT table settings.	1515B: 4C C3558 (Denverton), 8GB DDR4 2400 ECC	Turnium Network Bonding- 12 month subscription	Rack Mount Kit, Standard black nameplate	Wifi module, S/W Image load. All other accessories sold separately
Medium with LTE (NA/EMEA)	MN: L-1515A-8C-16E-128M-C1- TN1		1515A: 8C C3758 (Denverton), 16GB DDR4 2400 ECC			
Large with LTE (NA/EMEA)	MN: L-1515F-16C-16E-128M-C1- TN1		1515F: 16C C3958 (Denverton), 16GB DDR4 2400 ECC			
Small Broadband (no LTE)	MN: L-1515B-4C-8E-128M-TN1	128G SSD, 6 port GBE, 2 port SFP, SRIOV (i350), w/TPM2.0. Includes fixed BIOS & DMIT table settings.	1515B: 4C C3558 (Denverton), 8GB DDR4 2400 ECC,			
Medium Broadband (no LTE)	MN: L-1515A-8C-16E-128M-TN1		1515A: 8C C3758 (Denverton), 16GB DDR4 2400 ECC,			
Large Broadband (no LTE)	MN: L-1515F-16C-16E-128M-TN1		1515F: 16C C3958 (Denverton), 16GB DDR4 2400 ECC			

SKU	PN	Details
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 • Bandwidth Adaptation to mitigate the effects of network congestion

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