

NETWORK SECURITY APPLIANCE

Based on the latest Intel® Xeon® processor platform, the Transformyx Network Security Appliance has been designed for maximum performance, scalability and functionality in a 2U rack mount footprint. This appliance is optimized for computing power and high speed, high density I/O with best-in-class energy efficiency. It provides the latest architectural enhancements and advanced RAS to increase platform reliability. Advanced thermal system allows the appliance to scale from mainstream 12 and 14 core CPUs to the highest performance 18 core processors available today. The platform is ready to support double sized NMCs for future upgrades with 100GbE connectivity. Advanced Lights Out Management improves system manageability and reliability, providing platform thermal management, H/W monitoring and supervision. Remote firmware upgrade capability and hardware-based BIOS redundancy make the Transformyx NSA an ideal platform for mission-critical and highly available networks.

APPLIANCE SPECIFICATIONS:

Form Factor		Tabletop	
Processor System	Processor Core Number Frequency L2 Cache BIOS	Intel® Atom™ Processor C2558 4 2.4GHz 2MB AMI EFI 64Mbit	Intel® Atom™ Processor C2758 8 4MB
Virtualization		VT-x	
Memory	Technology Max. Capacity Socket ECC Support	DDR3/DDR3L 1600MHz 32GB (16GB per socket) 2 x 240-pin UDIMM ECC or Non-ECC	
Networking	Controller 1GbE	3 x Marvell 88E1112 1 x Marvell 88E6141 2 x 1000/100/10BASE-T RJ45 or SFP auto-negotiation link by Marvell 88E1112 1 x 1000/100/10BASE-T RJ45 by Marvell 88E1112 4 x 1000/100/10BASE-T RJ45 by Marvell 88E6141 with 1GbE uplink to CPU	
Expansion	Mini PCIe SIM socket M.2	1 x Full-size Mini PCIe with SIM holder for 3G/4G LTE (WWAN) module with 2 x antenna holes 1 x Mini SIM type (25 x 15 mm) 1 x M.2 2232 for WIFI (WLAN) module with 2 x antenna holes	Sierra/MC7455 with antenna Advantech/EWM-W162M with antenna
Storage	2.5" SSD M.2	None 1 x SATA3.0 Gen3 M.2 2280 (option 2x M.2 2242)	1 x 2.5" SATA3.0 Gen3 SSD bracket (Max 9.5mm height only)
I/O	Console Port USB2.0 LED Indicator Others	1 1 x USB2.0 Type A host port Power, HDD, 3G/4G LTE, WIFI, SW defined status 1 x Power Switch 1 x Software definable button with LED indicator	
TPM1.2		Optional support by TPM module: 98923260H0E	
Power Supply	Power Type Watts Input Connector Power Adaptor	DC 60W 100 V ~ 240 V DC Jack 12V 5A, 60W external adaptor	
Environment	Operating Temperature Non-operating Temperature Humidity Vibration Resistance Shock Protection	0 ~ 40 °C (32 ~ 104°F) -20 ~ 80° C (-4 ~ 167° F) 95% @ 40° C (non-condensing) with SSD: 0.3 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis with SSD: 10G, IEC-60068-2-27, half sine, 11ms duration	
Cooling		1 x system FAN with smart FAN for maximum 37.5dB(A)	
Mechanical	Construction Mounting Dimensions (W x H x D) Weight	Iron Support desktop/Rack/Wall-mounting options 250 x 44 x 190.4 mm (9.8" x 1.7" x 7.5") 2.3 Kg (4.8lb)	
OS Support		Linux (CentOS, Red Hat, Ubuntu)	
Advantech S/W Packages	QuickStart Linux Image (Ubuntu based reference BSP) Individual Package	afwu, lmsensors, flashrom, WIFI drivers, QMI Wireless drivers, Intel® DPDK, Intel® QAT, DUI (Offline Diagnostics) DUI (Offline Diagnostics)	
Certification	without RF	EMC Safety	BSMI: CNS13438 ; CE: EN55032/24 ClassB ; KCC: KN55032/35 ; RCM: AS/NZS CISPR32 UL, CB, BIS, BSMI, CCC
	with RF	EMC	CE: ETSI EN 301 908-1 V11.1: 2016 ; ETSI EN 300 328 V2.1: 2016 ; ETSI EN 301 893 V2.1: 2017 ; EN 62311: 2008; EN301489-1-17-52 ; EN301908-2 ; EN301908-13 FCC: Part22H & 24E & 27B, C & L & 90S ; §15.247, Cat: DTS ; §15.407
		Safety	UL: 60950-1 (2nd Edition), CAN/CSA C22.2 No. 60950-1-07 (2nd Edition) LVD: EN 60950-1 CB: IEC 60950-1:2005 (2nd Edition) + Am 1:2009 + Am 2:2013, EN 60950-1:2006 /A1:2009/A1:2010/A1:2011/ A2:2013
	RoHS		RoHS, REACH, WEEE)

PRODUCT HIGHLIGHTS:

Compliance Driven – Compliant with FCC and CE RED for deployable WWAN and WLAN function in North America and Europe

Industry-Standard – Off-the-shelf x86 server platform for remote office, and small to medium enterprise installations

WAN Connectivity – Dual 1GbE RJ45 or SFP auto-negotiation link

Flexible – Optional 3G, 4G LTE and WiFi connectivity

Universally Tested – Tested and Certified by key software vendors for vE-CPE and SD-WAN roll-out