

DATASHEET

VT AIR 1500



Supported by:
Federal Ministry
for Economic Affairs
and Energy
on the basis of a decision
by the German Bundestag



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Hardware

CPU	Intel Xeon D 2146NT, 2.3 GHz, 8 Core, Intel Quick Assist	Power	100-240V, Internal Power Supply
		Extension	2x Intel 4 Port SFP+ X710-DA4
RAM	32 GB DDR4 ECC Reg	Temperature	0C - 45C
SSD	2x 240GB Datacenter SSD SATA Hot Swap (RAID1)	Certificates	Electromagnetic Emissions: FCC Class B, EN 55032 Class B, EN 61000-3-2/3-3, CISPR 32 Class B
Console	VGA		Electromagnetic Immunity: EN 55024/ CISPR 24, (EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11)
NIC	2x SFP/SFP+ (10000/1000 Mbit/s) 2x RJ45 (10000/1000/100/10 Mbit/s) 9x RJ45 (1000/100/10 Mbit/s)		Other: VCCI-CISPR 32 and AS/NZS CISPR 32
Remote Management	1x 1Gbps RJ45 IPMI		Environmental: Directive 2011/65/EU, Deligated Directive (EU) 2015/863, and Directive 2012/19/EU
USB	2x USB 3.0		
Cooling	Active control chassis fans		Safety: CSA/EN/IEC/UL 60950-1 Compliant, UL or CSA Listed (USA and Canada), CE Marking (Europe)
Size	L: 382 mm W: 437 mm H: 43 mm		

Throughput

Packages per Second

Test	Speed
XDP Offloader	~13.500.000 pps
Normal	~ 7.000.000 pps
Maximum Connections	~ 40.000.000

iperf3 (Bidirectional)

Test	Speed
Firewall	37.74 Gb/s
Firewall + IPS	4.32 Gb/s
IPSec VPN (AES-256 GCM)	4.21 Gb/s
OpenVPN (AES-256 GCM)	1.41 Gb/s
Wireguard	5.78 Gb/s

IMIX Traffic (Bidirectional)

Test	Speed
XDP Firewall	35.21 Gb/s
Firewall	18.38 Gb/s
Firewall + IPS	4.79 Gb/s
IPSec VPN (AES-256 GCM)	1.90 Gb/s
OpenVPN (AES-256 GCM)	563 Mb/s
Wireguard	2.12 Gb/s

1. Throughput Data are based on bidirectional traffic

2. Iperf3 Traffic is TCP 1460 Bytes + TCP framing

3. IMIX Traffic is sets of UDP Traffic 7x 64 Byte packets, 4x 594 Byte packets, 1x 1514 Byte packets (Ethernet FCS not counted)

4. App Control/Intrusion Protection is Worst Case Performance