

DATASHEET

VT AIR 100



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Advanced Enterprise Router

Hardware

| | | | |
|----------------|------------------------------------------------------|---------------------|-------------------------------------------------------------------------|
| CPU | 2 Core ARM v7 Cortex-A9 1.6 Ghz | Power | 9V-32V Volt: 12V 2A 2,5mm Barrel Connector with turning Connector |
| RAM | 1GB DDR4 | Extension | None |
| SSD | 8 GB eMMC | Temperature | 0C - 35C |
| Console | USB Console | Certificates | FCC, CE, RoHS, UL, IEC-60950 |
| NIC | 1x SFP (1000 Mbit/s) 2x RJ45 (1000/100/10 Mbit/s) | Size | L: 125 mm W: 80 mm H: 30 mm |
| USB | 1x USB 3.0 | | |

Throughput

Packages per Second

| Test | Speed |
|---------|--------------|
| Maximum | ~ 450.000pps |

iperf3 (Bidirectional, 2 Ports)

| Test | Speed |
|---------------------------------|-----------|
| Firewall | 1.86 Gb/s |
| Firewall + IPS | 244 Mb/s |
| IPSec VPN (AES-256 CBC, SHA256) | 298 Mb/s |
| OpenVPN (AES-256 CBC, SHA256) | 92 Mb/s |

IMIX Traffic (Bidirectional, 2 Ports)

| Test | Speed |
|---------------------------------|-----------|
| Firewall | 1.31 Gb/s |
| Firewall + IPS | 304 Mb/s |
| IPSec VPN (AES-256 CBC, SHA256) | 71 Mb/s |
| OpenVPN (AES-256 CBC, SHA256) | 40 Mb/s |

1. Throughput Data are based on bidirectional traffic across 2 ports

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. IPSec and OpenVPN Traffic is a single Connection/Tunnel on one CPU

Software

| | | | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GUI | Modern and dynamic Webgui All settings can easily be done in the Webgui Dynamic Dashboard with widgets Languages: German, English, Spanish | QoS | Limiter, Traffic Shaping |
| OS | VT AIR Linux Webgui (Copyright Voleatech GmbH) Contains Open Source Software | Routing | Static, BGP, OSPF, Multiple Routing Tables, Gateway Groups and Load Balancing |
| Interfaces | Real Interface, VLAN, QinQ, Bond, Bridge, PPP, PPTP, GRE, IPIP, SIT SHDSL, VDSL, MacVLAN | VPN | OpenVPN (Certificates, User, Shared Key) IPSec IKEv1/IKEv2 (Certificates and PSK) |
| Interface Settings | IPv4/IPv6, Static IP, DHCP Client, SLAAC, Mac, MTU, MSS, Link Mode, 802.1x (Authenticator), etc. | Others | Certificate Management, Virtual IPs |
| Bridge | VLAN aware Bridge untagged and tagged VLANs per Port STP, RSTP Einstellungen für Treeprio, Maxhops, Aging, BPDUFilter, Pathcosts, Restricted Root Port | APPs | Docker Apps, individual Apps |
| Bond | Modes: Loadbalance Round Robin, Active/Backup, Load Balance with XOR, LAG (802.3ad), Adaptive transmit load balancing, Adaptive Loadbalancing | Encryption | Algorithms: AES-CBC, AES-CFB, AES-GCM, AES-OFB, BF-CBC, CAMELLIA, DES, usw. Hash: MD5, SHA1, SHA224, SHA256, SHA384, SHA512, ecdsa-with-SHA1, usw. |
| Firewall | Aliases, Firewalling, NAT Filtering in Layer 2, Layer 3 or Layer 4 Extended Filter settings | Tools | Webconsole, iftop, ping, tcpdump, traceroute, backups, usw. |
| Services | Cron, DNS, DHCP (v4+v6), DHCP Relay, NTP, SNMP (v2/v3), DynDNS | Diagnostics | ARP & ND, ARPing, Auditlogs, BGP, Bridge, DHCP, Dynamic Routing, Gateways, Interfaces, IPSec, Logfiles, Remote Syslog, OpenVPN, OSPF, QoS, Routes, Services, SFP, SHDSL, States, STP |
| | | Others | Extensive System Settings User- and Groupmanagement SSH Root access REST API (Automation) |

AND MUCH MORE...

[DOCUMENTATION](#)

[LIVE DEMO](#)