

Teldat

Windbit M20

M20 corporate edge-router

Introduction

The Windbit M20 platform is a high-performance edge specifically designed for traditional networks or integrated SD-WAN services with the flexibility to deliver advanced networking features along with integrated/remote security from the cloud or on-premises. The M20 models are ideal for small and medium-sized business branches with an optimal price/performance ratio and advanced SD services.

Its office-oriented design means it doesn't require forced ventilation, no fan is needed, and the customer can place it in work areas since it doesn't produce any noise.

Interfaces

Dual combo interfaces for copper/fiber	RJ45/SFP Gigabit Ethernet
Local integrated switch	8x 10/100/1000 BaseT RJ-45 ports
Console port RJ45 female	V24 115200-8-N-1 without flow control
Reset button	From factory recovery

Destacar

- Up to 1000 Mbps IMIX symmetrical services
- Traditional or SDWAN edge-router
- Embedded security(NGFW) or cloud secure services
- Extended Detection and Response(XDR) integration
- SD-Branch full stack solution with Switches/APs
- No fan, silent



Competitive Advantage

Powerful router platform	Up to 1Gbps IMIX (no additional HW or licenses), 2x WAN ports available for copper/fiber connectivity, and integrated local switch with advanced L2 features.
M20, an SDWAN edge	Complete smooth transition from traditional communications in remote offices to a hybrid SD-WAN network without additional HW requirements.
Secure Your Digital Transformation	Enhance communication security with M20 and Teldat's SSE architecture, featuring Secure Web Gateway and NGFW services that enable safely internet connectivity.
XDR cloud integration	Enable the network traffic analysis tool with M20 and the be.Safe XDR cloud service that provides comprehensive views of network activity.

Key Features

- **Powerful hardware architecture for 1000 Mbps services** Reliable in scenarios of up to 1 Gbps symmetrical (IMIX) with services thanks to its powerful hardware architecture with hardware encryption.
- **Electrical/optical connection and expansion slot** Built-in electrical/optical Gigabit Ethernet WAN interfaces to accommodate any connectivity scenario, whether single or redundant.
- **Security: 802.1x, ACLs, Firewall and DMVPNs (IPSec)** Corporate communications require corporate security. The Windbit M20 provides free of charge state-of-the-art security: ACLs, Firewall(L3-L7), 802.1x, IPSec (optional hardware encryption), etc.
- **No fan required. Noise = 0db. Suitable for office use** Lack of space in small offices often means that routers have to be placed in the work area. The M20 is specially designed for such environments. Since the router does not need a fan, it does not produce any noise.
- **Hardware encryption for high VPN performance** Powerful CPU with hardware encryption available as an option.(License, no HW changes, available remotely)
- **Onboard 8xGE switch** The built-in switch is ideal for small offices because it eliminates the need for an external switch, thus reducing costs and points of failure. GE, duplex, self-negotiable ports.
- **Advanced services (routing, management, QoS)** The M20 software includes all the advanced functions needed in corporate networks and carrier services, ready for the most demanding scenarios like MPLS and managed services.
- **Console port for out-of-band management** Operator/integrator managed services require out-of-band management to prevent them from interfering with customer networks. The console port is the most common method.

CARACTERÍSTICA TÉCNICA DEL HARDWARE

2x Optical/electrical Gigabit interface

SFP optical interface and RJ45 electrical interface (mutually exclusive)
RJ45 - 10/100/1000 BaseT-Duplex/half duplex automatic, MDI/MDI-X crossover
SFP - 1000BASE-X - SFP MSA Compliant

Out of band management port

V24 115200-8-N-1 without flow control
RJ45 female

Environmental specifications

Temperature: 0 to 40 °C, Relative humidity: 5 to 90%
Atmospheric pressure: 700 to 1060 mbars

Integrated switch

8x port female 10/100/1000 BaseT RJ-45 port
IEEE - 802.3i(10BASE-T) - 802.3u(100BASE-TX) - 802.3ab(1000BASE-T) - 802.1Q
Duplex/half duplex automatic negotiation - MDI/MDI-X crossover detection

Dimensions and Weight

L x W x H: 264 x 483 x 44 mm.
Approximate weight: 4 Kg
Format: 1U rack 19" or desktop installation

Power supply information

Internal Inlet Connector: C14. Max. Power Consumption 60W
Input Voltage: 100Vac/240Vac, Minimum: 90Vac, Maximum: 264 Vac
Frequency: 60Hz/50Hz, Minimum: 47Hz, Maximum: 63Hz

CARACTERÍSTICA TÉCNICA DEL SOFTWARE

IP protocol

ARP, ARP Proxy, MTU discovery, NAT/PAT, ECMP, BFD
RIPv1/2, OSPFv3, BGPv4, Load balancing, PBR-Policy Based static/dynamic Routing
Virtual Router Forwarding (Multi-VRF)

Security

IPSec support in transport and tunnel mode. DMVPN
Pre-shared authentication, RSA, Certificates, MDS, SHA-1
Encrypted: DES (56 bits), 3DES (168 bits), AES (128, 192 and 256 bits)

IP services

DHCP, DNS, FTP, SFTP, SSH server v1/2, Telnet server and client
NTP, LDAP, Syslog, SCP client. TFTP server
DHCP, dynDNS relay

IPv6

Dual Stack, IP6oIPv4, IPv4oIPv6, GRE, 6rd, DHCP, ICMPv6, SLAAC
Static and dynamic routing RIPv6, OSPFv3, MP-BGP
Multicast: MLD, MLDv2, Listener, Querier

Secure SDWAN networks

Overlay over hybrid networks with App-aware routing, QoS and Visibility
Central SD-WAN flow control including Zero Touch Provisioning

IP protocol (2)

Multicast: IGMP (v1,v2, v3), PIM-SM, PIM-SSM, MSDP, MLD, MLDv2
IPSLA service probes (delay, package loss, jitter)
High availability: VRRP, TVRP (HSRP compatible)

Security (2)

Certificates: CSR, SCEP, X.509v3, PKIX, LDAP revocation
Static and dynamic access lists(ACLs) and session-based Firewall
DoS/DDoS detection

Quality of Service QoS

IP Precedence, DiffServ and COS labeling for BW management
BW prioritization and limitation
Up to 16 queues per interface. PQ, LLQ, WFQ, CBWFQ, WRED

Management

CLI configuration and storage in a plain text file
Cloud Net Manager tool(HTTPS based)
RADIUS and TACACS+ AAA support, Netflow, RMON, SNMPv1, v2c y v3

L7 Security and XDR integration

Local security with NGFW inside the device
Cloud security and Intrusion Prevention with be.Safe Pro tools
be.Safe XDR Network Traffic Analysis tool for app visibility and control

CARACTERÍSTICA TÉCNICAS ADICIONALES

CPU and memory

4x core CPU 1.8GHz
RAM: 4GB, NO ECC (DDR4)
Flash: 4GB, eMMC

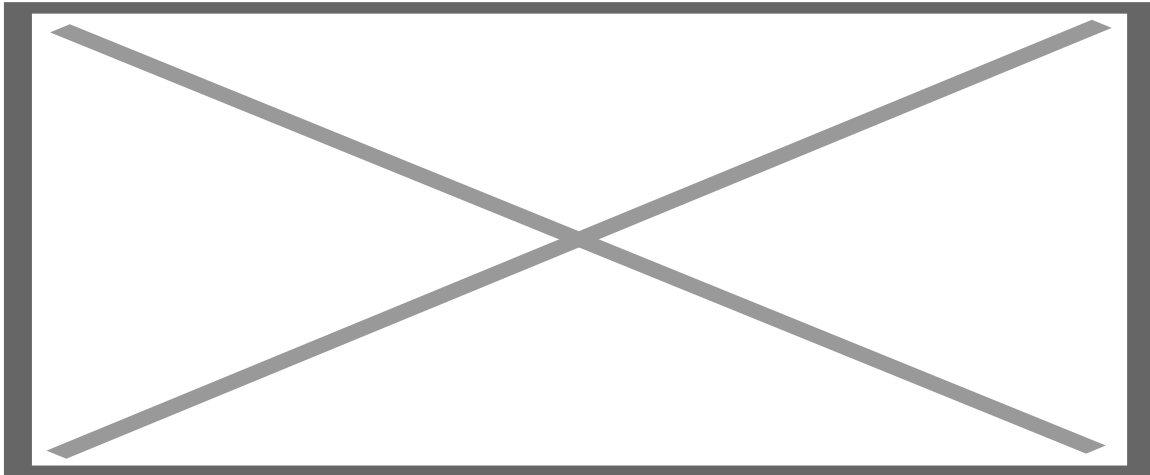
MTBF and maximum power consumption

MTBF: 648 KHours
Max. Power Consumption 60W

LEDs

Global: 2 (PWR, SYS)
Switch: - Two status LEDs per port (link+activity/speed)
Compos: RJ45-Two status LEDs (link+activity/speed) SFP - One status LED

Scenarios



Teldat Group