

Teldat

## M10L-Smart(New)

M10L-Smart, the latest advanced router

### Introduction

The M10L-Smart edge router is specially designed for cloud services thinking in enterprises with optimal performance requirements. The M10L-Smart scales from small to medium branch offices providing corporate data communications with a compact form factor, low power consumption, and no fans for high MTBF. The M10L-Smart can be installed in work areas with no noise and unnoticed in the work environment.

With this one-box solution, the M10L-Smart is the easiest way to forget about everything except business.

### Destacar

- Advanced router for branch offices
- High performance in WAN services up to 1Gbps
- Specially designed for FTTH/Fiber connectivity
- Advanced and secured SDWAN solution
- 4G interface for connection anywhere
- Ready for corporate carrier services
- Professional software features

### Interfaces

Dual WAN ports	2x Combo WAN GE Copper/SFP ports
LAN connectivity	4x Gigabit Ethernet ports
Wireless WAN interface	4G internal modem(Up to 300Mbps DL)
Console port	Complete access for troubleshooting



## Competitive Advantage

It accelerates office services migration	The M10L-Smart enables a smooth transition from traditional slow communications in remote offices to a fast network, ensuring the client's investment.
Enterprise-class data connectivity	The M10L-Smart is a high-speed router, up to 300Mbps IMIX ratio in routing scenarios, sophisticated QoS, and professional VPN-multivendor capabilities
Reducing Total Cost of Ownership	Customers can replace multiple devices by a single and flexible unit like M10L-Smart for overall communications reducing costs and simplifying operations.
Full wireless WAN services	The M10L-Smart is a new corporate router with Advanced LTE modem that allows providers to offer high-speed WAN services without physical infrastructure.

## Key Features

- **High WAN flexibility with copper/fiber** Built-in two WAN Combo GE/SFP ports giving electrical/optical Gigabit Ethernet interfaces to accommodate any connectivity scenario, whether single or redundant.
- **Hardware encryption** Powerful CPU with hardware encryption, available as an option, offering an IMIX aggregated encrypted performance greater than 300 Mbps.
- **Wireless WAN network access for critical applications** The M10L-Smart application software includes all the advanced functions needed in corporate networks and carrier services, ready for the professional most demanding scenarios.
- **No fan, no noise, ready for offices** Desktop/Wall fanless solution without noise that can be unnoticed at the office
- **Very good performance** Packet processing acceleration offers up to 600Mbps aggregated performance/WAN for remote branch offices.
- **Onboard 4xGigabit Ethernet ports** LAN ports are ideal for small offices because it eliminates the need for an additional devices, thus reducing costs and points of failure. They are 10/100/1000, duplex, self-negotiable ports.
- **Advanced services** An internal 4G category 6 modem in the M10L-Smart (please see models) can offer a reliable connection for critical applications even requiring high bandwidth (Up to 300Mbps download)
- **Easy deployment: Low complexity and operational costs** The M10L-Smart is the more agile and affordable edge model with easy network deployment (ZTP) and cloud services ready.

## CARACTERÍSTICA TÉCNICA DEL HARDWARE

### LAN connectivity

4x 10/100/1000 ethernet ports (LAN/WAN configurable)  
RJ45 connector, selfnegotiation, automatic crossover  
802.3i (10BaseT), 802.3u (100BaseT), 802.3ab (1000BaseT)

### WWAN interface

Internal modem 4G category 6 (LTE-A)  
Up to 300Mbps DL/ 50Mbps UL  
LTE bands: B1/B3/B5/B7/B8/B20/B28/B32/B38/B40/B41

### Dimensions and environmental specifications

L x W x H: 232,8 x 183,2 x 45.2 mm (exclude LTE antennas)  
Format: Desktop and wall mounting  
Temperature: 0 to 40 °C, Storage: -10°C to 70°C

## CARACTERÍSTICA TÉCNICA DEL SOFTWARE

### IP protocol

ARP, ARP Proxy, MTU discovery, NAT/PAT, ICMP, BFD  
Static and dynamic routing: RIP, OSPF, BGP, policy based routing(PBR)  
Virtual Router Forwarding (Multi-VRF)

### Security (1)

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

### IP services

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

### IPv6

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

### SDWAN networks

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

## CARACTERÍSTICA TÉCNICAS ADICIONALES

### Out of band management (Console port)

RJ45 female connector with proprietary pinouts (including adapter)  
Type RS232, N81  
Default speed 115200 bps

### Other relevant information

RAM memory:1GB  
Flash memory: 8GB  
External PSU 100-240 V AC, 50-60 Hz

### WAN connectivity: Dual WAN ports

WAN 1: 1x Combo GE Copper/SFP  
WAN 2: 1xCombo GE Copper/SFP  
Optical interface: 1000 Mbps (1000BASE-X) LX/LH-SX-ZX

### M10L-Smart models:

RCTM10SH011: M10L-Smart: 2xCombo GE + 4xGE RJ45 ports  
RCTM10SH012: M10L-Smart: 2xCombo GE + 4xGE RJ45 ports + WWAN 4G(EU)  
RCTM10SH013: M10L-Smart: 2xCombo GE + 4xGE RJ45 ports + WWAN 4G(AM)

### IP protocol (2)

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

### Security (2)

MAC filtering. Static and dynamic access lists(ACLs)  
Session-based Firewall  
Deep packet inspection(L7 firewall)

### Quality of Service(QoS)

Classification, marking, BW management, BW prioritization and limitation  
Strict policies (PQ), Low latency (LLQ), by weight/type (WFQ, CBWFQ)  
802.1p tagging. DSCP/ToS/Cos/proprietary mapping

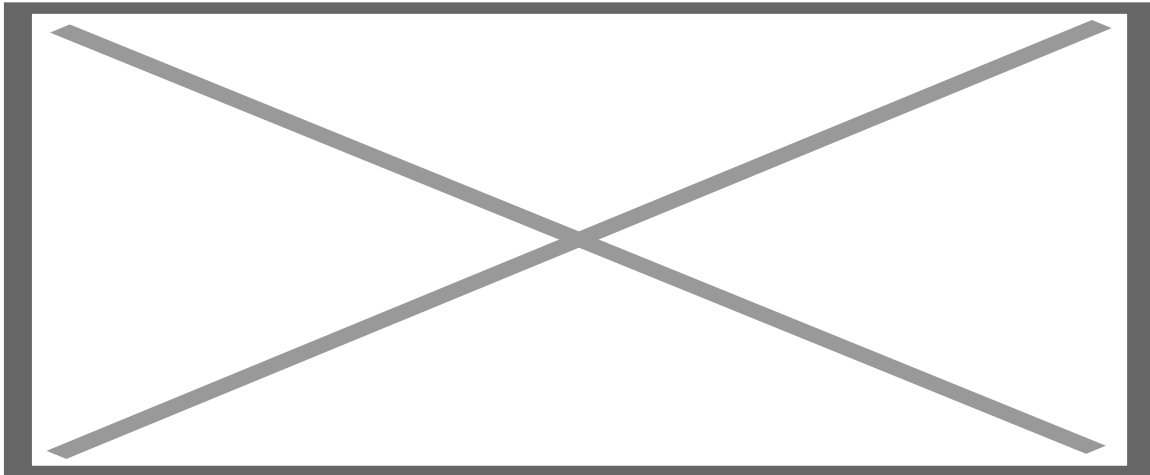
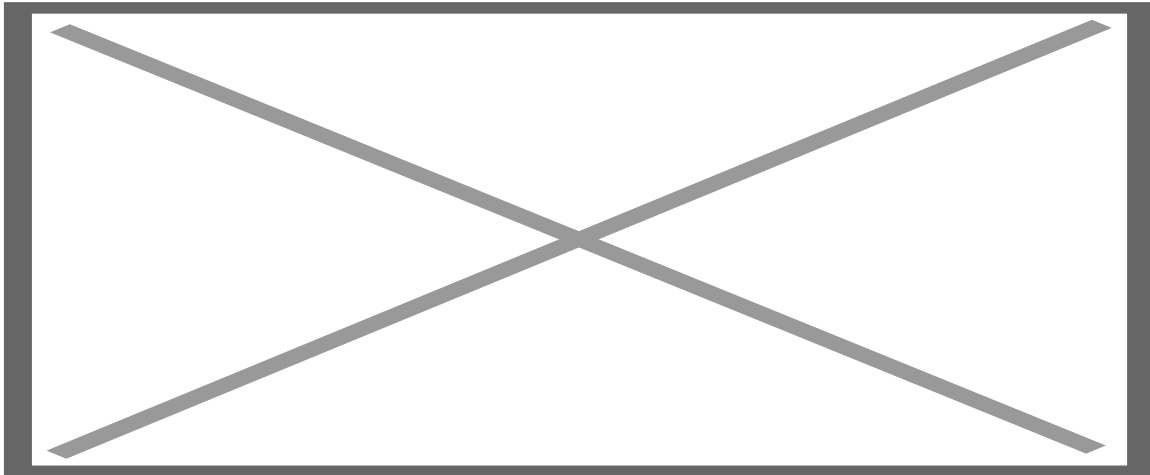
### Management

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

### LEDs

Front: Cloud, LTE, WLAN 5/2.4G, SYS  
Back: 2x per LAN port, 2x per WAN port (link, speed and activity)

## Scenarios



Teldat Group