

TK500 RELEASE MAY 2021







Industrial Router TK500 Series

- Five Ethernet Ports
- Depending on version with WiFi, RS-232, RS-485, 4G LTE, LTE Cat. 1
- DIN-Rail mounting and 12 to 24 V DC power supply
- Integrated Firewall, OpenVPN and IPsec
- Very compact and rugged housing
- Fully integrated with Welotec Smart EMS and Remote Access Portal

MODEL OVERVIEW - INDUSTRIAL ROUTER TK500 SERIES			
TK525L-W	LTE-WiFi-Router		
TK525L	LTE-Router		
TK535L1	LTE Cat. 1 Router		
TK525W	LAN-Router		



TECHNICAL DETAILS

	TK525L-W	TK525L	TK535L1	TK525W			
GENERAL DATA							
Туре	LTE-WiFi-Router	LTE-Router	LTE Cat. 1 Router	LAN-Router			
Series		TK500 Relea	se May 2021				
	CELL	ULAR FEATURES					
Chipset	Quectel EC25	Quectel EC25	Quectel EC21	-			
4G Standard	LTE Cat. 4	LTE Cat. 4	LTE Cat. 1	-			
GSM Band	B3/B8	B3/B8	B3/B8	-			
UMTS Band	B1/B8	B1/B8	B1/B8	-			
LTE Band	B1/B3/B7/B8/B20/ B28A/B38/B40/B41	B1/B3/B7/B8/B20/ B28A/B38/B40/B41	B1/B3/B7/B8/B20/ B28A	-			
Download (max)	150 Mbps	150 Mbps	10 Mbps	-			
Upload (max)	50 Mbps	50 Mbps	5 Mbps	-			
Authentication	CHAP/PAP/MS-CHAP/MS-CHAP2			-			
Cellular antenna connector	1x SMA (f)			-			
APN functions	APN (Access Point Name), VPDN (Virtual Private Dialup Network, IP VPN of the network operator)			-			
Dial On Demand	Always online or dial, SMS or local data transfer			-			
SMS functions	Reboot and status SMS			-			
WIFI CHARACTERISTICS							
IEEE 802.11b	11 Mbps		-				
IEEE 802.11g	54 Mbps						
IEEE 802.11n	300 Mbps						
IEEE 802.11i	WPA / TKIP / AES						
WEP	64-bit / 128-bit encryption						
Access point mode	Yes		-				
Client mode	Yes		-				
WiFi antenna connector	2x Reverse Polarity SMA (f)		-				



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ETHERNET INTERFACE						
Connector TX		R	145			
10/100BaseTX		5 Ports (1 of them WAN)				
IEEE 802.3	10BaseT / CSMA/CD (Ethernet)					
IEEE 802.3a	10Base2					
IEEE 802.3i	10BaseT					
IEEE 802.3u	100BaseT(X) / Fast Ethernet					
WAN-Port	ADSLI	ADSL Dialup (PPPoE)/Static IP/DHCP (uses 1 Ethernet Port)				
SERIAL INTERFACES						
Amount	1					
Туре	RS-232, RS-485					
Serial interface	TXD, RXD, GND, A(RS-485+), B(RS-485-)					
Connector	Terminal blocks 5-pin (m)					
Baud rate	1200 - 115200 bps					
Additional protocols	Transparent TCP, Virtual COM, Modbus TCP / RTU			J		
	ADDITIO	ONAL INTERFACE	S			
SIM card slot	2 -			-		
SOFTWARE CHARACTERISTICS						
Configuration	Webbrowser (http/https)					
Updates	Firmware update locally or via GPRS/UMTS/LTE					
ADVANCED FUNCTIONS						
LED	LED indicators for the signal strength, 5 status LEDs: POWER, STATUS, WARN, ERROR, WIFI	4 status LEDs: POV	the signal strength, VER, STATUS, WARN, ROR	4 status LEDs: POWER, STATUS, WARN, ERROR		

Welotec GmbH

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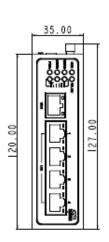


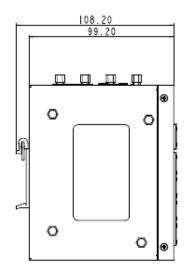
TECHNICAL DETAILS

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	NETWOR	K CHARACTERIS	TICS	
Routing		Stati	ic routes	
Network protocols	ICMP, TCP, IP, UDP, DHCP, NTP, DNS, HTTP, HTTPS, Telnet, ARP, VRRP, PPP			
Connection inspection	PPP LCP echo and ICMP keep alive for checking connections			
NAT and PAT	Network Address Translation (NAT) and Port Address Translation (PAT)			
DDNS (DynDNS)	Supports Dynamic DNS			
VRRP	Automatically switch to slave router if the master router fails			
IPsec	Supports IPsec IKEv1			
OpenVPN	Client and Server			
VPN authentication	Preshared key, digital certificates			
Firewall	Stateful Packet Inspection (SPI), multicast filtering, filter PING packets, preventing DoS attacks, different firewall strategies			
MAC address assignment	Prevents illegal host access			
Port forwarding	Extranet users can access specific intranet access ports			orts
Access control	Flexible access control of TCP, UDP and ICMP packets			
Realtime clock	Provides the system with the current time (NTP)			
	PC	WER SUPPLY		
Power supply	12 - 24 V DC			
Connector	Terminal blocks 7-pin (m)			
Power consumtion	2.4 W (standby) / 3.84 W (active)			
	PHYSICA	L CHARACTERIST	TICS	
Housing material	Metal			
Ingress protection	IP30			
Dimensions (WxHxD)	35 x 127 x 108.2 mm			
Weight	450 g			
Mounting	DIN rail			
	EN\	/IRONMENTAL		
Operating temperature range	-20 - +70 °C			
Humidity	5 - 95 %, non condensing			

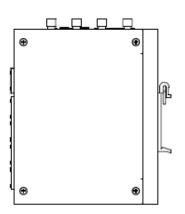


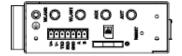
DIMENSIONS (MM)

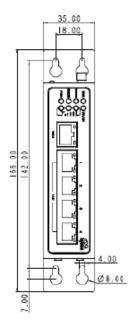


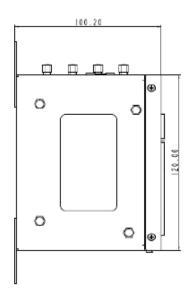


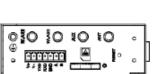


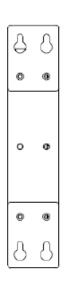


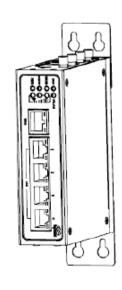














MODEL VIEWS







TK525L/TK535L1







TK525L-W -VIEW FROM ABOVE INCL. DIN RAIL BRACKET