

**INDUSRTIAL COMMUNICATION / ROUTER**

**TK535L1 - Industrial Router**

*Basic Line*



TK535L1 Basic-Line industrial Router with 5 Ethernet Ports in a compact metal housing. Featuring 4G LTE, 2G and serial RS-232 and RS-458 interfaces. Advanced security through VPN (IPsec and OpenVPN) and integrated Firewall.

**TK535L1**

GENERAL DATA	
Type	LTE-Router Cat. 1
Series	TK500
CELLULAR FEATURES	
Chipset	ublox LARA-R211
2G standard	GSM, GPRS, EDGE
4G standard	LTE Cat. 1
Frequency GSM/ GPRS	900/1800 MHz
Frequency LTE	800 (B20) / 1800 (B3) / 2600 (B7) MHz
Download (max)	10,3 Mbps
Upload (max)	5,2 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
ETHERNET INTERFACE	
Connector TX	RJ45
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

CAT-TK535L1-V1 EN ed. 10/18 Welotec GmbH

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SERIAL INTERFACES	
Amount	1
Type	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
ADDITIONAL INTERFACES	
SIM card slot	2
WAN-Port	ADSL Dialup (PPPoE)/Static IP/DHCP (requires 1 Ethernet port)
SOFTWARE CHARACTERISTICS	
Configuration	Webbrowser (http/https)
Updates	Firmware update locally or via GPRS
ADVANCED FUNCTIONS	
LED	LED indicators for the signal strength, 4 status LEDs: POWER, STATUS, WARN, ERROR
NETWORK CHARACTERISTICS	
Routing	Static 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
GRE	Preshared key, digital certificates
VPN authentication	Stateful Packet Inspection (SPI), multicast filtering, filter PING packets, preventing DoS attacks, different firewall strategies
Firewall	Prevents illegal host access
Port mapping	Extranet users can access specific intranet access ports
Access control	Flexible access control of TCP, UDP and ICMP packets
Realtime clock	Provides the system with the current time (NTP)
POWER SUPPLY	
Power supply V DC	12 - 24 V DC
Connector	Terminal blocks 7-pin (m)
Power consumption	2.4 W (standby) / 3.84 W (active)
PHYSICAL CHARACTERISTICS	
Housing material	Metal
Ingress protection	IP30
Dimensions (W x H x D)	35 x 127 x 108.2 mm
Weight	450 g
Mounting	DIN rail
ENVIRONMENTAL	
Operating temperature range	-20 - +70 °C
Humidity	5 - 95 %, non condensing

