

Industrial 4G Router - TK600

TK600 RELEASE JULY 2021



Fully integrated with:



SMART EMS
Rollout and central
management of routers
and edge gateways



VPN Security Suite
Secure E2E access to
devices and machines
in the field

Industrial Router TK602L

- Integrated Modbus RTU/TCP to IEC 60870-5-104 and MQTT conversion
- Two Ethernet Ports
- RS-232, RS-485, 4G LTE
- DIN rail mounting and 12 to 48 V DC power supply
- Integrated firewall and OpenVPN
- Very compact and robust housing
- Fully compatible with Welotec Smart EMS and Welotec VPN Security Suite

MODEL OVERVIEW - INDUSTRIAL ROUTER TK602L

TK602L	4G Router
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Industrial 4G Router - TK600

TECHNICAL DETAILS

TK602L

CELLULAR FEATURES	
Type	4G-Router
Series	TK600
Chipset	Quectel EC25-EC
LTE Category	Cat. 4
LTE Band	B1/B3/B7/B8/B20/B28A
Download (max)	150 Mbps
Upload (max)	50 Mbps
Authentication	CHAP/PAP/MS-CHAP/MS-CHAPV2
Cellular antenna connector	1x SMA
APN functions	APN (Access Point Name), VPDN (Virtual Private Dialup Network, IP VPN of the network operator)
ETHERNET INTERFACE	
Connector TX	2x RJ45 10/100TX; 1x WAN + 1x LAN or 2x LAN
WAN-Port	1 Port
SERIELLE INTERFACES	
Amount	2
Type	RS-232, RS-485
Serial interface	TXD, RXD, GND, A(RS-485+), B(RS-485-)
Connector	Terminal block, 7-pin
Baud rate	300 - 230400 bps
ADDITIONAL INTERFACES	
SIM card slot	2
SOFTWARE CHARACTERISTICS	
Configuration	Web Browser
Updates	Local upgrade or remote with Welotec Smart EMS
NETWORK CHARACTERISTICS	
Routing	Static Routing
Network protocols	ICMP, DNS, TCP/UDP, TCP Server, DHCP
Connection inspection	ICMP keep alive
NAT and PAT	Networks Address Translation (NAT) and Port Address Translateion (PAT)
DDNS (DynDNS)	Supports Dynamic DNS
OpenVPN	Client, Server
VPN authentication	Preshared keys, digital certificates
Firewall	Stateful Packet Inspection (SPI), ACLs
Access control	CHAP/PAP/MS-CHAP/MS-CHAPV2
Realtime clock	Provides the system with the current time (NTP)

Industrial 4G Router - TK600

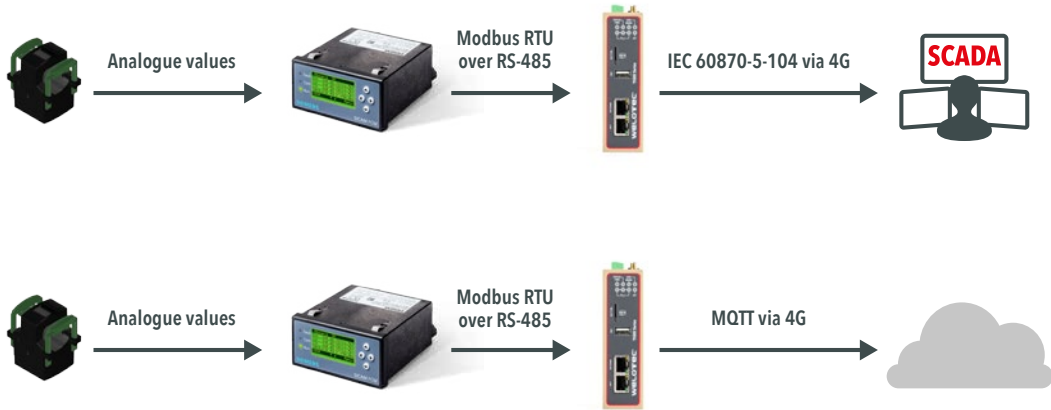
TECHNICAL DETAILS

TK602L

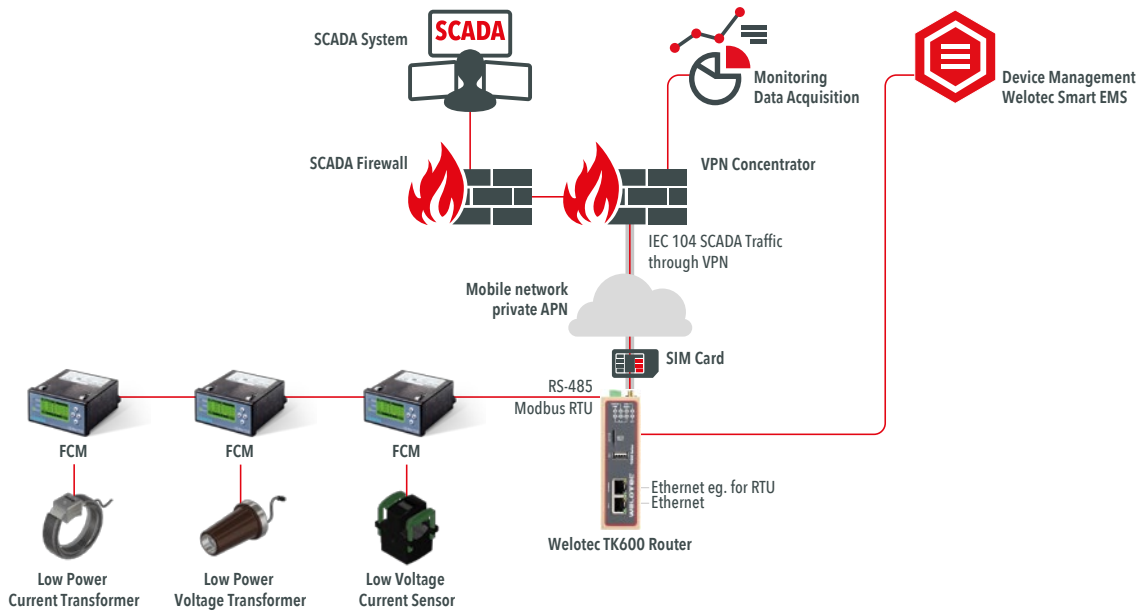
ADVANCED FUNCTIONS	
Watchdog	Software and hardware watchdog
LED	POWER, STATUS, WARN, ERR, Signal Strength (3), LTE
POWER SUPPLY	
Power supply	DC 12-48 V, polarity revers protection
Connector	Terminal block, 7-pin
Power consumption standby	200 mA @12 V
Power consumption aktiv	250 - 500 mA @ 12 V
PHYSICAL CHARACTERISTICS	
Housing material	Metal
Ingress protection	IP30
Dimensions (WxHxD)	127 x 108.2 x 35mm
Weight	420 g
Mounting	DIN rail
ENVIRONMENTAL	
Operating temperature range	-20 to +70 °C
Storage temperature range	-40 to +85 °C
Humidity	5 - 95 %
Shock	IEC60068-2-27
Free fall	IEC60068-2-32
Vibraton	IEC60068-2-6
EMC CHARACTERISTICS	
ESD	EN61000-4-2, level 3
Surge protection	EN61000-4-5, level 3
EFT	EN 61000-4-4, Level 3
RF	EN 61000-4-3, Level 3
RC	EN 61000-4-6, Level 3
Variation magnetic field immunity	EN 61000-4-8, >Level 3

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APPLICATIONS



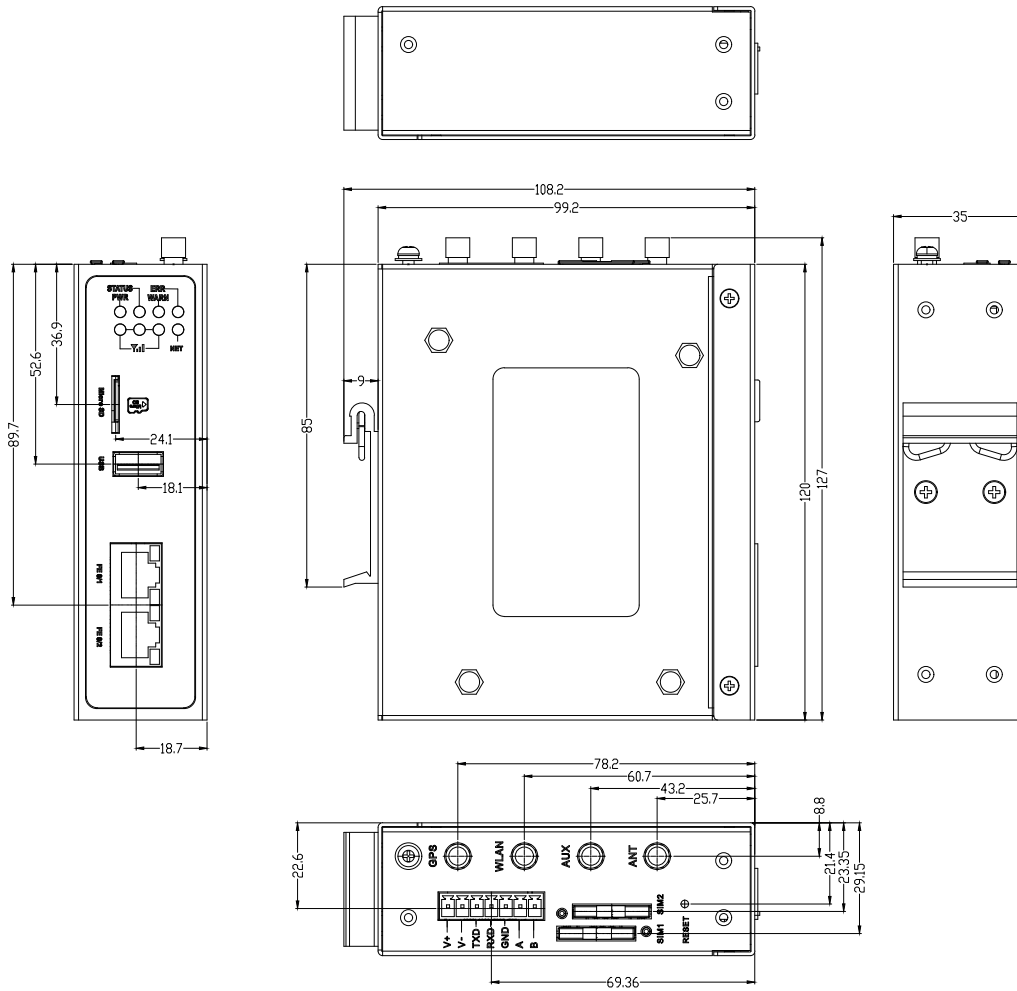
Data conversion and transmission



Complete measuring and communication infrastructure

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DIMENSIONS (MM)



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MODEL VIEWS

