

## INDUSTRIAL COMMUNICATION / ROUTER

### TK500 - Industrial Router

Basic Line



TK500 Basic-Line industrial Router with 5 Ethernet Ports in a compact metal housing. Featuring LTE, UMTS, WiFi and serial RS-232 and RS-458 interfaces. Advanced security through VPN (IPsec and OpenVPN) and integrated Firewall.

	<b>TK515L-W</b>	<b>TK515L</b>	<b>TK505U</b>	<b>TK505W</b>
<b>GENERAL DATA</b>				
Type	LTE-WLAN-Router	LTE-Router	UMTS-Router	LAN-Router
Series	TK500			
<b>CELLULAR FEATURES</b>				
Chipset	Cinterion PLS8-E		Cinterion PH8	-
2G standard	GSM, GPRS		GSM, GPRS	-
3G standard	UMTS, HSDPA, HSUPA, HSPA+		UMTS, HSDPA, HSUPA, HSPA	-
4G standard	LTE		-	-
Frequency GSM/ GPRS	900/1800 MHz		850/900/1800/1900 MHz	-
Frequency UMTS	900/1800/2100 MHz		850/900/1800/ 1900/2100 MHz	-
Frequency LTE	800/900/1800/2100/2600 MHz		-	-
Download (max)	100 Mbps		14.4 Mbps	-
Upload (max)	50 Mbps		5.76 Mbps	-
Authentication	CHAP/PAP/MS-CHAP/MS-CHAP2			-
Cellular antenna connector	2x 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			-

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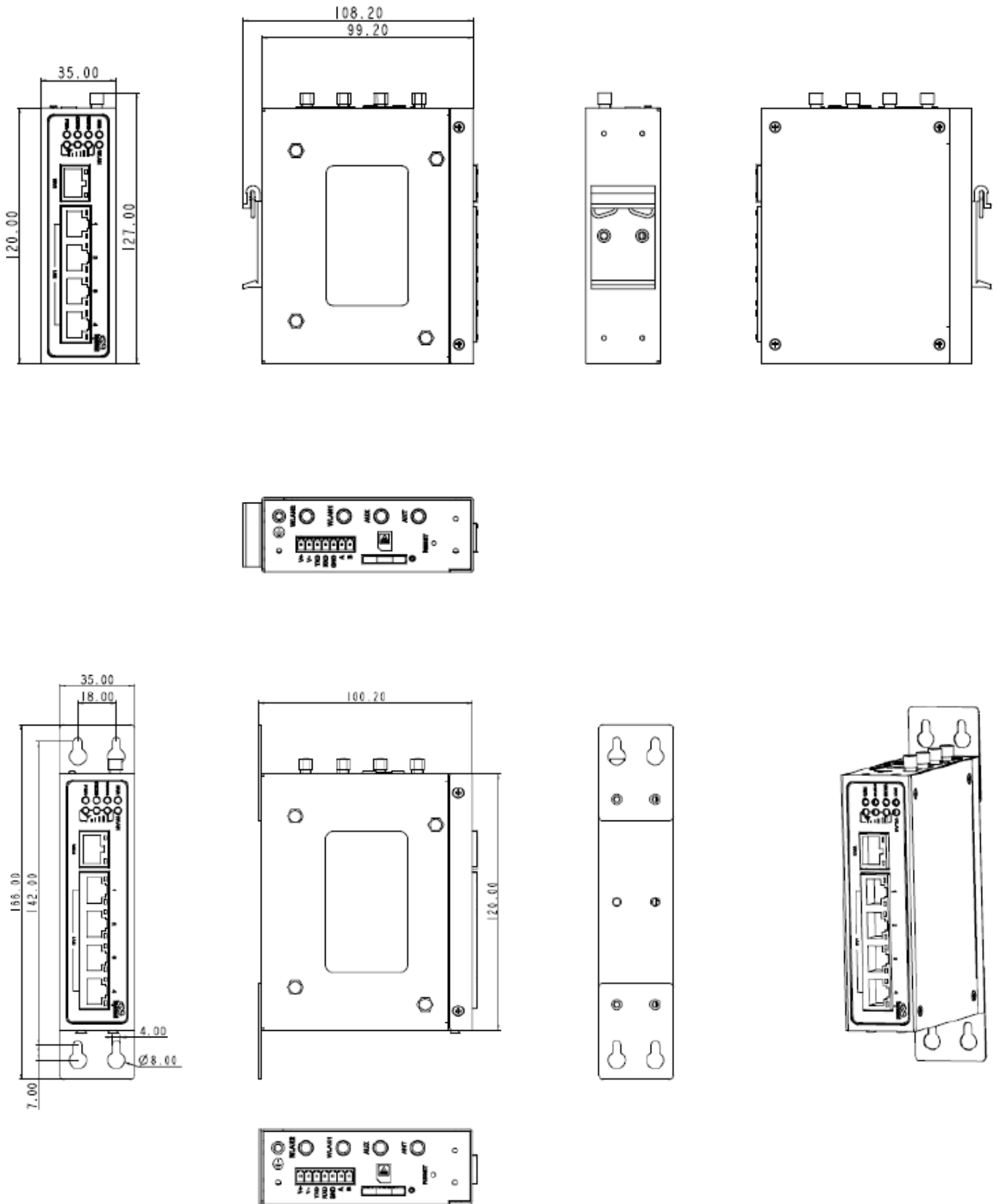
WI-FI CHARACTERISTICS		
IEEE 802.11b	11 Mbps	-
IEEE 802.11g	54 Mbps	-
IEEE 802.11n	300 Mbps	-
IEEE 802.11i	WPA / TKIP / AES	-
WEP	64-bit / 128-bit encryption	-
Access point mode	Yes	-
Client mode	Yes	-
Wi-Fi antenna connector	2x Reverse Polarity SMA (f)	-
ETHERNET INTERFACE		
Connector TX	RJ45	
10/100BaseTX	5 Ports (1 of them WAN)	
IEEE 8023	10BaseT / CSMA/CD (Ethernet)	
IEEE 8023a	10Base2	
IEEE 8023i	10BaseT	
IEEE 8023u	100BaseT(X) / Fast Ethernet	
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	1	-
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/UMTS	
ADVANCED FUNCTIONS		
LED	LED indicators for the signal strength, 5 status LEDs: POWER, STATUS, WARN, ERROR, WIFI	LED indicators for the signal strength, 4 status LEDs: POWER, STATUS, WARN, ERROR

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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)
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	0 - +50 °C
Humidity	5 - 95 %, non condensing

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