

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-485 interfaces. Advanced security through VPN (IPsec and OpenVPN) and integrated Firewall.

TK525L-W		TK525L	TK525U	TK525W
GENERAL DATA				
Type	LTE-WLAN-Router	LTE-Router	UMTS-Router	LAN-Router
Series	TK500			
CELLULAR FEATURES				
Chipset	Cinterion PLS8-E	Huawei ME909s-120	Cinterion PH8	-
2G standard	GSM, GPRS	GSM, GPRS, EDGE	GSM, GPRS	-
3G standard	UMTS, HSDPA, HSUPA, HSPA+	UMTS, HSPA, HSPA+, DC-HSPA+	UMTS, HSDPA, HSUPA, HSPA	-
4G standard	LTE	LTE	-	-
Frequency GSM/ GPRS	900/1800 MHz	850/900/1800/1900 MHz	850/900/1800/1900 MHz	-
Frequency UMTS	900/1800/2100 MHz	850/900/1900/2100 MHz	850/900/1800/1900/2100 MHz	-
Frequency LTE	800/900/1800 /2100/2600 MHz	800/850/900/1700/1800 /1900/2100/2600 MHz	-	-
Download (max)	100 Mbps	150 Mbps	14.4 Mbps	-
Upload (max)	50 Mbps	50 Mbps	5.76 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			-

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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	-15 - +70 °C		
Humidity	5 - 95 %, non condensing		

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