

TK800 Series – Industrial GPRS / UMTS / LTE Router

The new generation



4G

LTE with 100 Mbps

LTE standard for high transmission rates and good network coverage in sparsely populated areas



Extreme robust

High quality metal housing and -25 ° C to + 70 ° C operating temperature range for demanding and harsh environments



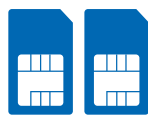
Dynamic Multipoint VPN

GRE, L2TP, IPSec, DMVPN, OpenVPN
Simple and fast configuration of thousands of routers thanks DMVPN



MIMO / Diversity

Two SMA (f) antenna connectors for better reception and low susceptibility to faults even with difficult conditions



Dual SIM

High availability with the use of SIM cards of two different network operators thanks to fallback



Command Line Interface

In addition to the web interface, the router can be configured through a lean command line



I/O support

A digital input and a relay output for connections to sensors and actuators (only for TK800 with additional EX)



Serial Interfaces

Each one RS-232 and RS-485 interface for connecting serial devices (only for TK800 with additional EX)



Five Ethernet Ports

Up to five RJ45 Ethernet ports. One of them as WAN port usable (Static IP, DHCP, PPPoE)



EMC

High electromagnetic compatibility according to 61000-4 for use in high-stress environments

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Technical Details

| TK802L | | TK812L |
|----------------------------|----------------------------------------------------------------------------------------------------------|----------------------------|
| CELLULAR FEATURES | | |
| Type | LTE router | LTE router |
| Chipset | Huawei ME909 | Cinterion PLS8-E |
| 2G standard | GSM, GPRS | GSM, GPRS |
| 3G standard | UMTS, HSDPA, HSUPA, HSPA+ | UMTS, HSDPA, HSUPA, HSPA+ |
| 4G standard | LTE | LTE |
| Frequency GSM/GPRS | 850/900/1800/1900 MHz | 900/1800 MHz |
| Frequency UMTS | 850/900/1800/1900/2100 MHz | 900/1800/2100 MHz |
| Frequency LTE | 800 / 1800 / 2600 MHz | 800/900/1800/2100/2600 MHz |
| Download (max) | 100 Mbps | 100 Mbps |
| Upload (max) | 50 Mbps | 50 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 | |
| ETHERNET INTERFACE | | |
| Connector | 2x RJ45 port 10/100TX (1 of them WAN) | |
| WAN-Port | 1 Port | |
| ADDITIONAL INTERFACES | | |
| Console port | 1x RJ45 Console port (RS-232) | |
| SIM card slot | 2 | |
| SOFTWARE CHARACTERISTICS | | |
| Configuration | Webbrowser, Telnet, SSH and Serial port | |
| Updates | Webbrowser, Serial port, TFTP, FTP | |
| ADVANCED FUNCTIONS | | |
| Watchdog | Software and hardware watchdog | |
| LED | LED indicators for the signal strength, 8 status LEDs: POWER, STATUS, WARN, ERROR, Modem, 2x SIM, VPN | |
| NETWORK CHARACTERISTICS | | |
| Routing | Static routes and dynamic routes with RIP or OSPF | |
| Network protocols | ICMP, TCP, IP, UDP, DHCP, SNTP, DNS, HTTP, HTTPS, Telnet, ARP, VRRP, PPP, SSH | |
| Connection inspection | PPP LCP echo and ICMP keep alive and IP SLA / tracking 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 | Tunnel mode, Transport mode, DMVPN | |
| OpenVPN | Client | |
| GRE | Point-to-Point | |
| VPN authentication | Preshared keys, digital certificates | |
| Firewall | Stateful Packet Inspection (SPI), ACLs | |
| Access control | ACLs, RADIUS, TACACS+, LDAP | |
| Realtime clock | Provides the system with the current time (NTP) | |

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| POWER SUPPLY | | |
| Power supply | 12 - 48 V DC | |
| Connector | Terminal blocks 2-pin (m) | |
| Power consumption standby | 2.6 W | |
| Power consumption aktiv | 3.6 W | |
| PHYSICAL CHARACTERISTICS | | |
| Housing material | Metal | |
| Ingress protection | IP30 | |
| Dimensions (W x H x D) | 45 x 132.6 x 112.8 mm | |
| Weight | 557 g | |
| Mounting | DIN rail | |
| ENVIRONMENTAL | | |
| Operating temperature range | -25 - +70 °C | |
| Storage temperature range | -40 - +85 °C | |
| Humidity | 5 - 90 %, non condensing | |
| Shock | IEC 60068-2-27 | |
| Free fall | IEC 60068-2-32 | |
| Vibration | IEC 60068-2-6 | |
| EMC CHARACTERISTICS | | |
| EDS | EN 61000-4-2, level 4 | |
| Surge protection | EN 61000-4-5, level 3 | |
| EFT | EN 61000-4-4, level 4 | |
| RF | EN 61000-4-3, level 4 | |
| RC | EN 61000-4-6, level 3 | |
| Oscillatory wave immunity | EN 61000-4-11, level 3 | |
| Variation magnetic field immunity | EN 61000-4-8, level 5 | |

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Dimensions TK812L

