

**TK701G-232**

- 200 MIPS ARM9, 8MB NORFlash, 16MB SDRAM
- Software and Hardware Watchdog
- Linux Plattform, TCP/IP and PPP Stack, Plug and Play
- Configuration via Web, Telnet, Hyper Terminal and SSH
- VPN IPsec: DES, 3DES, AES, MD5 and SHA-1
- Supports OpenVPN, PPTP, L2TP, GRE Tunnel
- Supports DTU Mode, transparent data transmission over serial interface (RS-232)
- Rugged metal housing with DIN-rail mounting

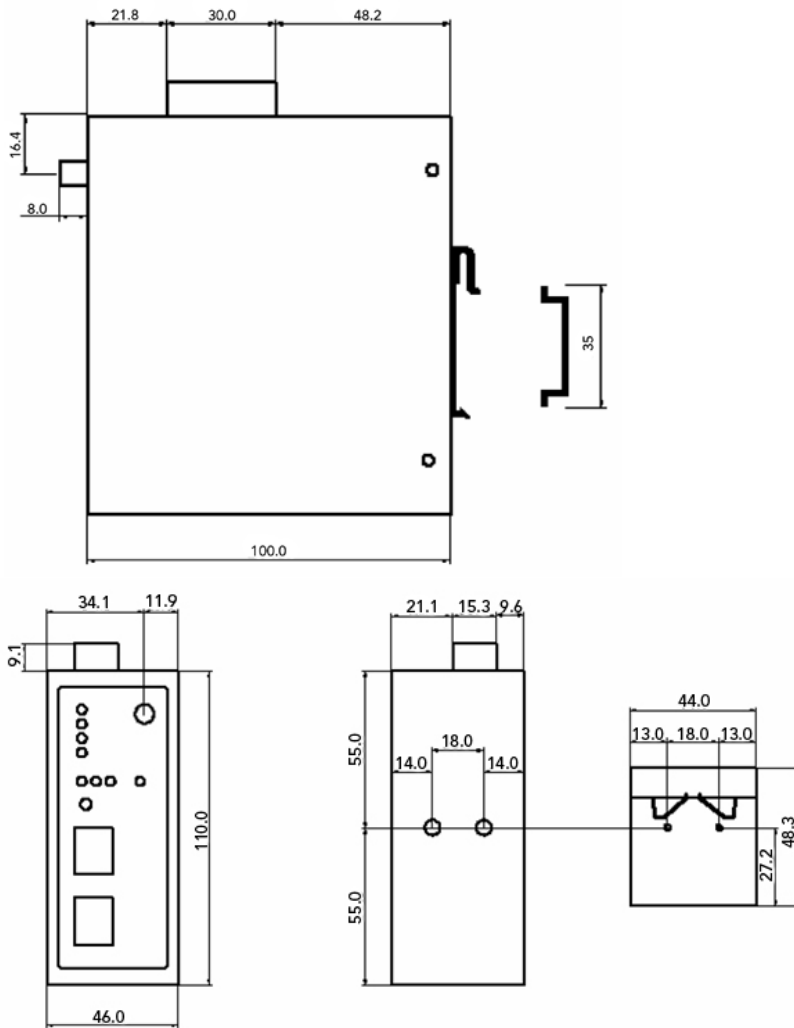


**Technical details**

Module	Cinterion MC55i, GSM/GPRS 850/900/1900/2100 MHz Quad Band		
Geschwindigkeit	Downlink 64.2 Kbps	Uplink 42.8 Kbps	
Authentication Protocol	CHAP/PAP/MS-CHAP/MS-CHAP2		
Always online	PPP LCP echo and ICMP „keep alive“ for link inspection		
High Sensitivity	low signal strength required (CSQ>12)		
Ethernet	Interface	10M/100Mbase-T RJ45, auto MDI/MDI-X	
	Isolation Protection	1,5 kV between signals and Gnd	
Serial Ports	Port	3-lined RS-232 Port	3-Lined RS-232 Serial Port
	Schnittstelle	terminal block	RJ45
	Rate	1200 bit/s to 115200 bit/s	
System Management	Konfiguration and Update: Webbrowser, Telnet, Hyper Terminal and SSH		
Network Features	Routing	Static routing	
	Multi-Protocol Support	ICMP, IP, TCP, UDP, DHCP, PPP, ARP, Telnet, DNS,SSH,VRRP,HTTP, HTTPS, NTP	
	NAT andPAT	Network Address Translation (NAT) and Port Address Translation (PAT)	
	DDNS (DynDNS) Support, VRRP		
Network Security	Integrated Firewall		
	4x VPN IPsec Tunnel, OpenVPN	Encryption: DES, 3DES, AES	
	Authentication Methods	Pre-shared Key, digital certificate	
	OpenVPN, PPTP, L2TP and GRE (Client and Server)		
	Port Mapping		
	Flexible access control of TCP, UDP and ICMP packet		
	Downlink and Uplink speed control		
	DMZ - supports virtual servers		

Embedded Advanced Functions	EasyDataConnect / SMS Features	
	Real-time Clock	
	Hardware and Software Watchdog	
	3-level LED indication of cellular network and signal strength	
	4 Running Status LEDs (Power, Status, Warning, Error)	
Power Supply	Power Input	9 – 48 VDC, over current protection
	Power Consumption	Communication: 300mA @ 12V (max) Idle: 120mA @ 12V (max)
Housing	Material	Metal, weight 490 g
	Dimension	46mm x 100mm x 110mm
	Mounting	DIN-rail
Operation Environment	Operation Temperature	-25°C... +70°C
	Storage Temperature	-40°C... +85°C
	Humidity	5% bis 95%
	Protection Level	IP 30
Certification	Insulation Resistance	DC500V imposed on communication lines to ground and on power lines to ground, resistance >500MΩ
	Electric Strength	DC500V imposed on communication circuit to ground and on power lines to ground, leakage current 0mA
	Anti-shock	IEC60068-2-27
	Drop	IEC60068-2-23
	Vibration	IEC60068-2-6
	ESD	Meet EN61000-4-2, Electrostatic discharge: Level 4, +/- 8KV to all communication ports, Air discharge: Level 4, +/- 15KV to all parts of outer casing
	Surge	Meet EN61000-4-5, Level 3, Level 3, between each group of lines and chassis ground, differential-mode +/- 1 KV peak, common-mode +/- 2KV peak, 1.2/50us; not applicable to serial ports
	Electric Fast Transient / Burst	Meet EN61000-4-4, power terminal, Level 4, +/- 4KV peak, repetition rate 5 KHz; data terminal, Level 4, +/- 2KV peak, repetition rate 5 KHz
	RF Electromagnetic Field Immunity	Meet EN 61000-4-3, frequency range: 80 MHz to 1000 Mhz, Level 3, 10V/m
	RF conducted interference	Meet EN61000-4-6, frequency range: 150 KHz to 80 Mhz, Level 3
	Damped oscillation Immunity	Meet EN61000-4-12, 1 MHz power lines differential-mode +/- 1KV; 1MHz power lines, common-mode +/- 2,5 KV
	Power frequency electromagnetic fields Immunity	Meet EN61000-4-8, horizontal/vertical 400 A/m
	Impact resistance	15 G / 11 ms

**Measurement**



**Notes for the user**

- The intended use of the devices is described in this document. Others than the described uses are not permitted or only after consultation with the manufacturer. In particular the use of the devices is not permitted in applications, in which security of persons depends on the function of the devices.
- The installation, start-up and the operation of the devices must be made by a trained specialist. Here the valid regulations are relative to consider:
  - accident prevention
  - electromagnetic compatibility
- The technical data of electronics, in particular the ambient conditions and connected loads, are to be considered.

Änderungen und Irrtümer vorbehalten

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