



Experts in data communication

M3000

The M3000 is a multiprotocol router platform which gets its flexibility from modular design. It has been especially optimized for small and medium-size business environments. As a high speed VPN access router, for example, or a VPN gateway.

The modular structure of M3000 architecture makes it the ideal platform for all kinds of wide-band connections including (A)DSL, 3G+ (with an integrated 3G+ modem) and ISDN as well.

The individual software modules can be implemented simply and rapidly using TDT's own Linux Distribution.

The powerful hardware offers sufficient capacity for up to 350 IPsec VPN tunnel.

Data is encoded using standard procedures (IPsec) such as AES or 3DES and a key length of up to 4096 Bit.

As recommended by the Federal Office of Information Technology Security, the authentication of the remote stations can be performed either by using deposited certificates or pre-shared keys.

Your network is securely protected by the high-security firewall with intrusion detection and the possibility of scripts and rules.

VRRP permits a low-cost realization of highly available networks.

The Virtual Router Redundancy Protocol permits operating two or more redundant devices acting as one gateway.

The use of the optional load balancing features of the M3000 platform permits a uniform or defined distribution of the data flow by load or by type of data.

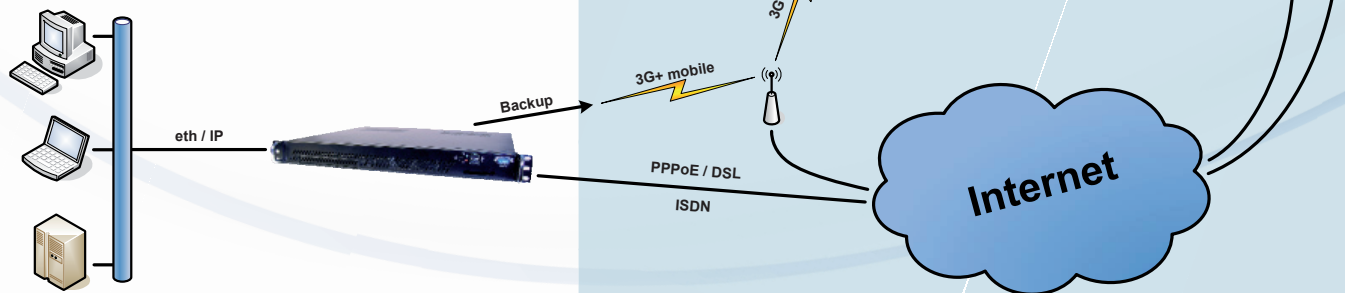
When necessary, the M3000's intelligent backup management controls the individual backup paths completely automatically.

The switchover and switchback to ISDN, UMTS/GPRS or any other substitute path occurs completely automatically. The application is unaffected by it.

Using Secure DynDNS opens up further options. For example, despite its dynamic IP address, the M3000 can always be reached from outside, and can thus provide a large number of additional services such as those of an FTP server.

The integrated remote management permits the M3000 system to be administered from anywhere in the network. In the process, special attention is focused on security and reliability.

High performance multiprotocol Router / Gateway with modular architecture



Hardware

- 667 MHz VIA Eden Processor (fanless, C3 instruction set, VIA Chipset)
- 256 MB RAM (Optional 1GB)
- 2x 512 MB OS Memory (Compact Flash, Dual Boot, Optional 2GB)
- 2 PCI extension slots:
- Optional equipment e.g. UMTS Card and/or ADSL/ISDN Modem
- Integrated VGA-, Mouse- und Keyboard connectors (z.B. for debug or monitoring function)
- 1x 10/100 BaseT Ethernet Port
- (Wake on LAN, with PCI VLAN Card up to 5 ethernet ports)

3G+ HSPA/UMTS/EDGE/GPRS/GSM (optional)

- Support 2 Mbps (5.76 Mbps ready) HSUPA and 7.2 Mbps HSDPA services
- Receive diversity (UMTS 2100/1900/850MHz)
- GSM/GPRS/EDGE: Quad Band (850/900/1800/1900 MHz)
- HSPA/UMTS: Tri Band (850/1900/2100 MHz)

Router and IP-Features

- Support of the IP-Protokoll family e.g. IP, TCP, UDP, ARP, RARP, ICMP, QoS
- Static Routing & Filtering, RIP 1/2, OSPF, BGP, GRE
- DHCP-Server / Client
- Network Address Translation (NAT) and Reverse NAT (Static NAT Mapping, NATP PAP / CHAP support)
- Web-Interface
- Dynamic DNS Client
- IPSec over NAT-Traversal (NAT-T RFC 3947)
- Preboot Execution Environment (network based booting)
- NTP (Network Time Protocoll) as server and client
- IP CAM Server (for Video application)

Management and Security

- IPSec (3DES, AES) with IKE (up to 350 tunnels) and Xauth
- OpenVPN, S-tunnel, L2TP
- Certificate enrollment protocol SCEP (PKCS#7, PKCS#10)
- Realtime statistic und log function
- Firewall with own rules or scripts
- Local or remote configuration via integrated web-interface, SSH (Command Line Interface)
- Konfiguration via SMS
- Multilevel Usermanagement (Web and CLI based)
- Intelligent Backup-Management
- Software Update via Secure Shell (SSH), SCP
- Real Time Clock
- SNMP V1 und V2c
- Pearl interpreter
- Load balancing (optional)
- VRRP Support (Virtual Router Redundancy Protocol)
- FTP (Server/Client and Relay Agent, e.g. for buffering data of Webcams)

Extension slot modules (optional)

- Ethernet 5 Port 10/100
- ISDN 1 Port (TE) or 2 Port (NT-TE)
- DSL Modem intern
- Serial 2 - 6 Port
- IEC - 60870-5-104/104
- X.25 or USB X.25
- PCMCIA Slot (for custom modules)

For further details ask for the „extension slot modules“ data sheet

Technical Data

- Dimensions: designed for 19 Zoll Server Rack, height is one rack unit
- installation depth: 385 mm / total depth: 414 mm
- Operating Temperature: -5°C - 60°C; Humidity: 85% (none condensing)
- Weight: ca. 6100g
- Power supply: 230 V internal
- Power consumption: ca. 52W
- Rigit metal housing
- 0 dB (fanless design)



fig. M3000 rear view