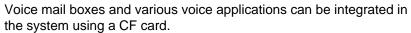# elmeg T484

elmeg T484 connects all communication worlds

T484

Flexible PBX offers small-scale companies plenty of scope for growth

The elmeg T484 closes the gap between compact and modular systems in the elmeg telephony systems portfolio.

The elmeg T484 is an expandable system that unifies well-known functions such as integrated xDSL/ISDN router incl. Packet Filter Firewall and easy use, with new innovative functions from Funkwerk Enterprise Communications.

Voice mail boxes and various voice applications can be integrated in the system using a CF card.
The telephony system can be designed precisely to your specifications thanks to the various module slots.

Moreover, the system is enabled for Voice over IP. The elmeg T484 can be connected directly to an SIP provider using the 4 DSP module.

Ideal for small-scale companies
With the elmeg T484, Funkwerk Enterprise Communications (FEC) brings a diversely expandable PBX onto the market, which, even in its basic version, fulfils the requirements of many small-scale companies. The gap in the elmeg PBX portfolio between compact and modular systems has now been closed. The basic model offers eight a/b ports, expandable to twelve ports. This means that twice as many analog ports are available for end devices than with its sister model elmeg T444. The various module slots play a key role in the elmeg T484 expansion concept. A slot is provided for expansion with digital and analog trunks and end devices, another slot accommodates the elmeg 4 DSP module with which analog and ISDN telephones can be directly connected via a SIP provider for modern VoIP telephony. Of course, it is also possible to connect IP telephones. In addition, a plug-in slot for CF memory cards allows voice boxes with different messages played prior to recording and other voice applications, such as announcement before answering, hotel wake-up messages, or different WAV file music on hold.

Especially in small-scale companies, such as handicraft enterprises or shared offices, the PBX should facilitate all communication with the outside world. This includes e-mail and Internet access, as well as telephony. The elmeg T484, with its integrated xDSL/ISDN router, is ideally equipped for these tasks. The integration into the PBX reduces the complexity of configuration and installation is far easier to perform. The combination of xDSL and ISDN offers enhanced reliability. In the case of a DSL fault, the user can revert to the ISDN connection, which is usually available, and maintain the Internet connection. A powerful packet filter firewall provides protection against external attacks. Preconfigured profiles protect the elmeg T484 against the most frequent types of attack as soon as it is switched on; the clearly arranged programming interface means there are no problems with individual settings present.

System telephony as it is with PBX systems
Ease of operation is always a priority with PBXs from FEC. The elmeg T484, together with elmeg system telephones, displays busy subscribers and allows 2-way intercom and specific announcements on one or more end devices. A boss/secretary function is also possible with the ISDN system telephones. Numerous team call signalling modes assist in the configuration of and the communication in working groups. Of

course, conference calls and call forwarding according to the line status are also integrated. Besides offering these standard functions, which customers expect from a modern PBX, the elmeg T484 also keeps a clear path into the future. Voice-over-IP (VoIP) promises to be an important communication trend in the coming years on account of the cheap calls it allows. The elmeg T484 not only supports VoIP with digital IP telephones, but together with the elmeg 4 DSP module also allows VoIP with analog and ISDN end devices. As a result, the PBX integrates existing and new telephones seamlessly and transparently for the user. Using the elmeg 4 DSP module, the elmeg T484 can communicate directly with a SIP provider on the Internet and logs the VoIP telephone numbers in the system. This transparently integrates Voice-over-IP into the users' working environment making them unaware of whether they are calling via a trunk or VoIP. The elmeg T484 also saves costs with an integrated LCR (Least Cost Router) including gateway support and an easy-to-use configuration interface.

PBX integrated into the network
The network connection of the elmeg T484 makes the system directly accessible via the LAN. With the drivers configured for LAN-TAPI and LAN-CAPI, users have access to telephone functions on their PCs. This can be a direct link between PCs with Outlook contact data and the connected telephones or the use of the ISDN channels of the PBX as a fax line directly to the PC. Management can also comfortably access the system directly via a PC connected to the network or via a USB link to the telecom system.

Base Modul:
 o 1 x S0 internal / external usable
 o 1 x S0 internal
 o 8 x a/b internal
 o Integrated IP-Router for Internet access via xDSL or ISDN with:
- 1 xDSL/WAN interface Ethernet (for external xDSL modem)
- 1 LAN interface,10/100 Mbps Fast Ethernet
- 1 LAN interface USB
 o LEDs for indication of Power, ISDN, LAN, WAN

1 module slot for expansion with:
 o Module 2 x S0, of which 1 x S0 internal/external, 1 x S0 internal
or
 o Module 4 x a/b internal
or
 o Module 2 POTS (connection of 2 analogue exchange lines)
or
 o Module 4 POTS (connection of 4 analogue exchange lines)

1 slot for:
 o Module TFE (door hands free)
or
 o Module contacts comprising 6 signal inputs/sensors and 3 switching contacts/actuators

1 slot for:
 o Module 4 DSP for direct connection to SIP provider

And 1 slot for:
 o Compact Flash Card

And in addition:´
 o FSM (fine protective module against excess voltage)

Features elmeg T484

Features
 o 2 digitale exchange line channels (1 external S0; Point-to-mulitpoint/Point-to-point ISDN access)
 o 2 digital internal channels (1 internal S0; for connecting elmeg system telephones or standard ISDN terminals)
 o Voice box functionality and WAV applications using CF card (opt.)
 o System telephony with elmeg system telephones
 o Max. 12 a/b ports
 o CLIP and charge pulse on all ports
 o Integrated IP router for Internet access via xDSL or ISDN with:
 o 1 xDSL/WAN-Ethernet inter-face (for external xDSL modem)
 o 1 LAN Interface,10/100 Mbit-Fast-Ethernet
 o 1 LAN Interface USB

Optional extension with
 o Module 4 a/b for providing 12 ports
 o Module 2 S0 for expansion using two internal or one internal and one external S0 port.
 o Module 2 / 4 POTS V.2 to connect the T484 to two or four analogue outside lines
 o CF card to realise up to eight voice boxes and a max. of four WAV applications
 o 4 DSP module for the con-nection of a SIP provider

And also:
 o Routing performance:> 2 Mbit/S with xDSL
 o Use of fixed or dynamic IP addresses (PPPoE) for xDSL
 o Integrated Packet Filter Firewall, with chargable filter sets, NAT
 o Automatic Fallback xDSL to ISDN programmable
 o TAPI and CAPI in the LAN
 o LEDs for Power, ISDN, LAN, WAN

Comprehensive software package including
 o elmeg WIN Tools (supplied on CD-ROM):
 o elmeg Professional Configurator
 o elmeg Control Center
 o elmeg Telephone Directory Manager
 o elmeg Charge Manager
 o elmeg Web Interface for LCR Professional
 o elmeg TAPI Manager
 o elmeg Download-Manager
 o Filter Wizard for easy configuration of firewalls
 o System configuration and firmware updates via USB, S0 internally and remotely, or LAN ports (TCP/IP)

Current features
 o Integrated xDSL/ ISDN router with Packet Filter Firewall and NAT
 o LCR feature including gateway support
 o Connection of a door terminal adapter to the analog ports
 o Automatic completion of calls (CCBS, CCNR) in the network and internally
 o Individual and team functions
 o Busy-on-busy
 o Team calls to an MSN extension number (team number) Deflecting calls without answering (CD, Call deflection)
 o Charge credit for each subscriber (pocket money)
 o CLIP (number display) supported by all analog ports
 o Call rerouting programmable from a remote location (Follow me)
 o Memory for 500 charge data records, overflow indication by LED
 o Centralized switching of day/night modes
 o Day/night call mode controlled by date/time (incl. day of the week control)
 o Alphanumeric telephone directory with 500 entries

Accessories
 o elmeg module 4 a/b
 o elmeg module 2 S0
 o elmeg module 2 POTS V.2

o elmeg module 4 POTS V.2
o elmeg module 4 DSP