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voice and data telecommunication solutions

CATALOGUE 2018

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INOTESKA company was founded in 1992 and provides reliable solutions in voice & data telecommunication field for more than **25 years**. Company offers wide range of telecommunication devices which help to extend, optimize and effectively utilize existing networks, and cut costs. Company is focused on development, production and sale of telecommunication devices functionally aimed on voice and data transmission, multiplexing, merging, concentration and conversion. Main product lines are **VoIP gateways, multiplexers, voice routers, converters** and **GSM gateways**. Company uses **SMD technology** and progressive methods for mounting and soldering integrated **BGA** circuits/chipsets. Many customers across the globe is the proof of quality of solutions provided by **INOTESKA.**

Company holds **ISO 9001** quality certificate in field of **Electronic devices development and manufacturing** and **Electronic devices repairs.** Manufacturing processes of our company are in compliance with strict ecological standards **RoHS**.

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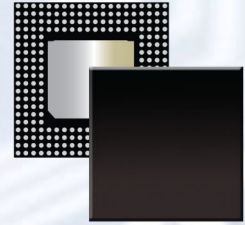email@inoteska.sk
www.inoteska.sk

CVI
MANAGEMENT SYSTEM CERTIFICATION
ISO 9001

SMD Technology

CE

RoHS COMPLIANT

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TABLE OF CONTENT

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SERVICES

- **Development** and **manufacture** of telecommunication and electronic devices according to customers requirements

- **Installation** and **maintenance** of telecommunication devices and its **diagnostics** using special measuring and diagnostic tools

- **Consulting** in field of telecommunications

- **P**rinted **C**ircuit **B**oards **designing** and **FPGA** integrated circuits **programming** and configuration

- Mounting and **soldering** components to **PCB,** including **BGA** integrated circuits

- **Software** development
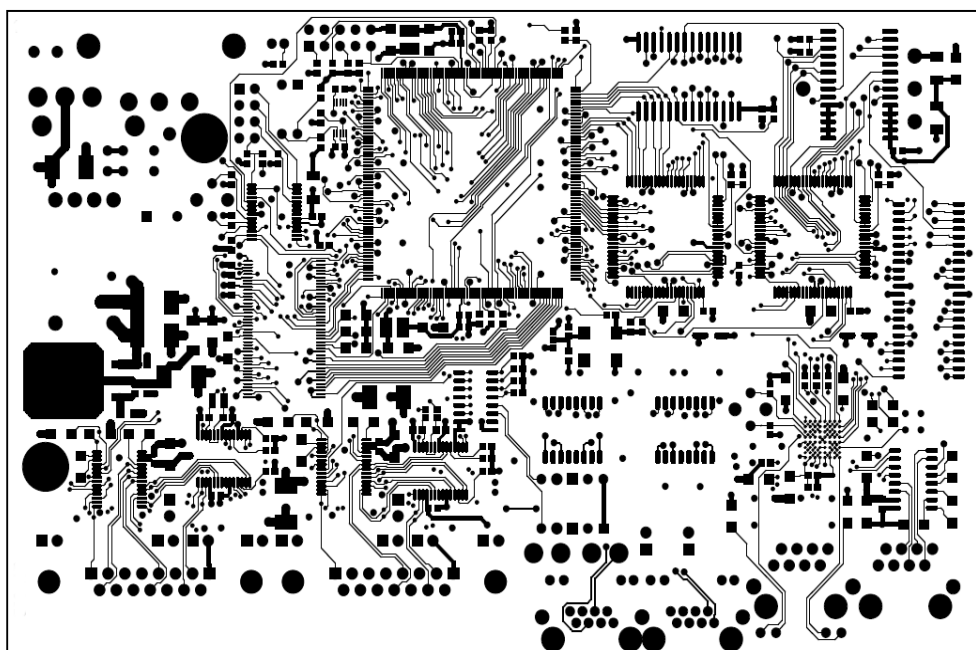
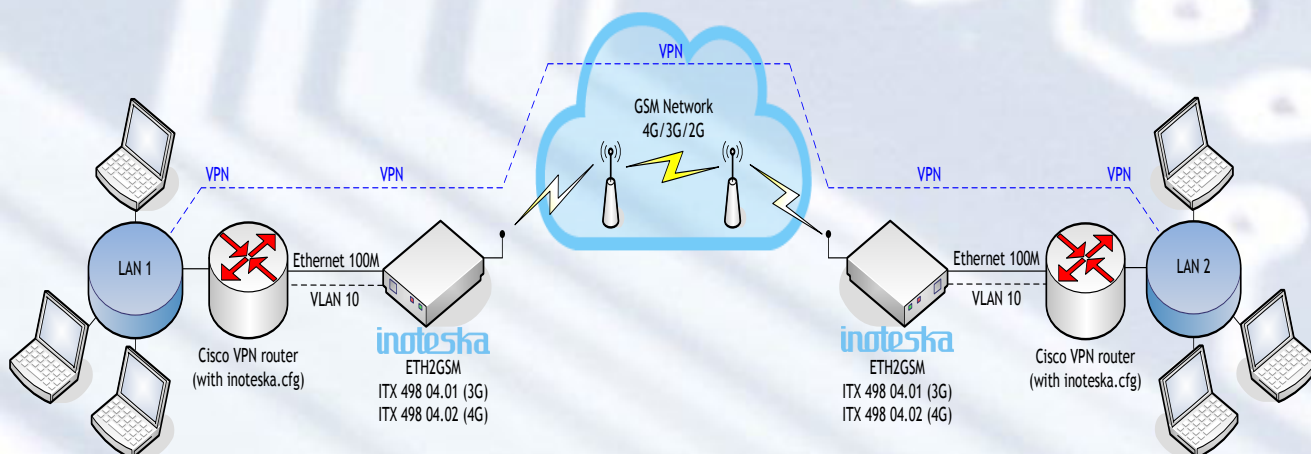# ETH2GSM CONVERTER 3G/4G

PRODUCT CODE: ITX 495 02

The ETH2GSM CONVERTER is used as data converter from GSM to Ethernet and vice versa, with the specific Bridge feature. It enables the data transmission without the possibility of voice transmission.

INTERFACES

1 x **Ethernet** 100 Mbit/s

1 x **GSM** Module for 1 SIM card - Mini SIM (2FF) slot (1.8V / 3.0V)

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VOICE & DATA ROUTER

PRODUCT CODE: ITX 495 01

Voice and data router with high variability of configuration and utilization. Can be used as BRI/E1/GSM/VoIP gateway TDM/VoIP/ISDN PBX, multiplexer and signaling converter.

INTERFACES:
- 4x **E1/T1** G704 (120/75 Ohm, RJ45/BNC)
- 2x **Ethernet** 10/100 BT (or 1 x 10/100 BT a 1 x 10/100 FX, auto MDIX option)
- 1x Terminal port V.24 (RS232) RJ45
- Optional:
  - up to 4x **BRI S0** S/T (100 Ohm, RJ 45), or 16x **Uk0** LT/NT with line powering option
  - up to 32x **FXS** / 16x **FXO** / 32x **LB** interfaces/links
  - up to 12x **GSM**/GPRS, 2G, 850/900/1800/1900 MHz
  - Optic interface (SC Duplex, 100Mb/s), or SFP module shaft

GSM PARAMETERS:
- 4 frequency bands 850/900/1800/1900 MHz
- GPRS multi-slot class 10/8
- GPRS mobile stations class B
- In compliance with GSM phase 2/2+
- Class 4 (2W @850/900 MHz)
- Class 1 (1W @1800/1900 MHz)
- 2G, voice service only
- Data transmission and SMS not supported

SIGNALING:
VoIP:
- SIP – RFC 3261
- SDP – RFC 2327
- RTP – RFC 1889, RFC 2833, RFC 3389

ISDN:
- Euro ISDN EDSS – 1/ETSI PRI/ NET5
- ETS 300 011 (ISDN PRI UNI)
- ETS 300 012-1 (ITU – T I.430)
- ETS 300 402-2 (ITU-T Q I.921)
- ETS 300 403-1/2 (ITU-T Q.931)
- ETS 300 102-2 (ITU-T Q.931)
- ISDN speech, audio and data (Fax Gr4, UDI 64)

CAS MFC R2:
- ITU – T od Q.440 do Q.480, Q.490
- ITU – T od Q.421 do Q.424

MANAGEMENT:
- LAN/WAN remote management CLI-SSH
- Web management – GUI
- Terminal access
- Local – control interface RS232
- SNMP protocol / NAGIOS
- QoS

VOICE CODECS:
- G.711 (A-law / µ-law)
- G.723.1 / G.723.1A
- G.726
- G.729 annex A&B

SYSTEM:
- OS LINUX
- Asterisk SW

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FEATURES:

- Possibility to connect devices via Ethernet (SIP sig.), or via E1
- Up to 64 concurrent VoIP calls (depending on voice codecs)
- Echo canceller G.165/G.168-2004 up to 128 ms
- Fax via IP support, including T.38
- Internal time-slots cross-connect for TDM-TDM calls
- Robust jitter buffer
- DTMF-RFC 2833 generating and detection
- Call progress tone generating (dial, busy, ringtone, etc.)
- Caller ID generating and detection
- Informating announcements playback
- Silence detection and suppression and comfort noise generating
- Basic data routing
- Integrated firewall

VARIANTS:

ITX 495 01. **a b c d e f**

a.) Channel compression

0 = without VoIP/SIP
1 = compression 16 channels = max. 48 concurrent calls (G.711), or 16 concurrent calls (G.726, G.729a/b, G.723.1)
2 = compression 32 channels = max. 64 concurrent calls (G.711), or 32 concurrent calls (G.726, G.729a/b), or 24 calls (G.723.1)

b.) BRI interface

0 = none
4 = 4 BRI S0
5 = 8 BRI Uk0
6 = 16 BRI Uk0

c.) Analog interface

0 = none
1 = yes

d.) GSM interface

0 = none
1, 2, 3, 4, 5, 6, 7, 8, 9, a = 10, b = 11, c = 12

e.) Power supply

1 = 230V AC & -48V DC
2 = 230V AC
3 = -48V DC

f.) E1 interface

0 = none
1 = RJ 45
2 = BNC

UTILIZATION EXAMPLES:

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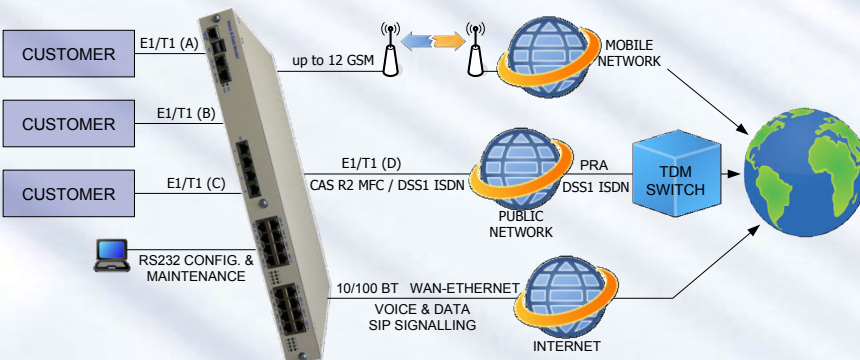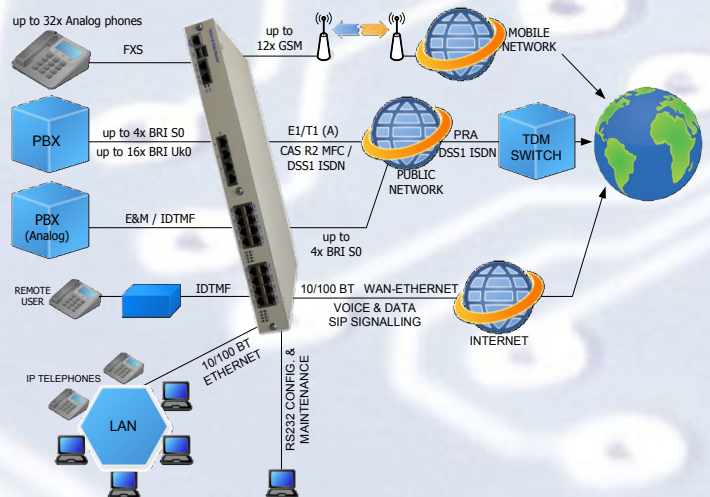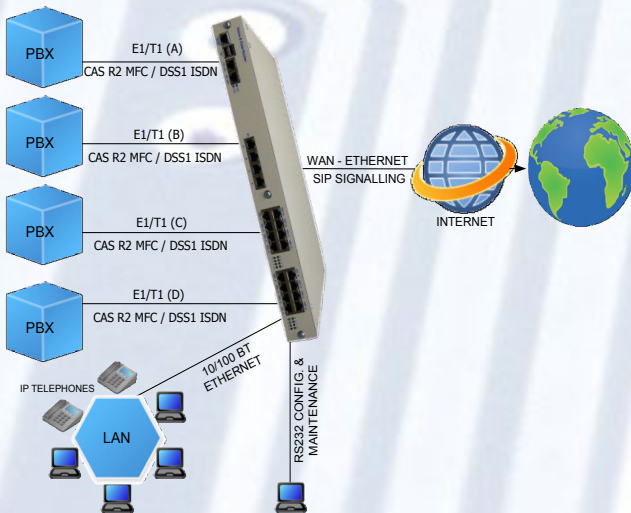
VOICE & DATA ROUTER BA
PRODUCT CODE: ITX 495 02

Voice and data router with high variability of configuration and utilization. Can be used as BRI/E1/GSM/VoIP gateway TDM/VoIP/ISDN PBX, multiplexer and signaling converter.

SYSTEM & HW:
- OS uCLINUX
- Asterisk SW v1.4x
- BLACKFIN processor BF527 600MHz
- 64 MB RAM
- 128 MB NAND Flash
- 8 MB DATA Flash
- Optional SD card

GSM PARAMETERS:
SIMcom modules:
- 4x / 8x / 12x GSM SIM port
- 4 freq.bands 850/900/1800/1900 MHz
- 2G, voice service only
- Data transmission and SMS not supported

SIGNALING:
VoIP:
- SIP signaling RFC 3261 / Asterisk 1.4

E1:
- ISDN DSS1 – ZAPTEL 1.4 / LIBPRI

ISDN:
- Euro ISDN EDSS – 1/ETSI PRI/ NET5
- ETS 300 011 (ISDN PRI UNI)
- ETS 300 012-1 (ITU – T I.430)
- ETS 300 402-2 (ITU-T Q I.921)
- ETS 300 403-1/2 (ITU-T Q.931)
- ETS 300 102-2 (ITU-T Q.931)

ANALOG:
- FXS, E&M, FXO, MB

BRI:
- ISDN DSS1, ZAPTEL / LIBPRI

NETWORK:
- IPV4, TCP, UDP, DHCP, DNS, NAT, HTTP, FTP, TFTP, SSH

INTERFACES & MODULES:
Digital:
- 1x **E1/T1** - signaling ISDN **DSS1**
- 2-4x **BRI** S0 S/T (100 Ohm, RJ45, with line powering option, signaling ISDN **DSS1**
- 2x **Ethernet** 10/100BT LAN/WAN
- 1x RS232 console
- 4-12x **GSM** 850/900/1800/1900 MHz
- 1x SD card for CDRS or LOGS

Analog: (realized by extension modules)
- **FXS** module (quadruple), up to 32 FXS ports (terminated with external RJ"XX" patch panel, or up to 16 FXS built-in RJ45 ports)
- **FXO** module (double), up to 16 FXO ports (terminated with external RJ"XX" patch panel, or up to 16 FXO built-in RJ45 ports)
- **E&M** module (double), up to 6x E&M, Signaling type V. permanent
- **LB** module (quadruple), up to 32 LB ports

MANAGEMENT:
- Remote LAN/WAN management CLI-SSH, FTP, HTTP
- Web management – GUI
- Terminal access
- Local control interface RS232
- SNMP protocol
- QoS, TOS / DiffServ

VOICE CODECS:
- G.711 (A-law, µ-law)
- G.726
- G.729 annex A&B (license not included)

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FEATURES:

- Maximum 10 concurrent VoIP/SIP calls G.711 (8 calls G.729)
- SW echo canceller to 128 ms
- Internal timeslot cross-connect for TDM calls (min. delay)
- DTMF-RFC 2833 generating and detection
- Call progress tone generating/detection (dial, busy, etc.)
- Caller ID generating and detection
- Informing announcements playback
- AOC generating to E1/BRI
- Fax via G.711 (T.38 not supported)
- Dial plan, CDR, LCR
- Basic data routing
- Firewall

VARIANTS:

ITX 495 02. a b c d e f

a.) BRI interface
- 0 = none
- 2 = 2 BRI S0
- 4 = 4 BRI S0

b.) Analog interface
- 0 = none
- 1 = max. 8 analog modules
- 2 = max. 16 analog modules
- 3 = 4x FXS terminated with RJ45 (1 FXS module – quadruple)
- 4 = 4x FXO terminated with RJ45 (2 FXO modules - double)
- 5 = 16x FXS terminated with RJ45 (4 FXS modules - quadruple)
- 7 = 4x E&M (2 modules – double)
- 8 = 6x E&M (3 modules – double)

c.) E1 interface
- 0 = none
- 1 = 1x RJ45
- 2 = 1x BNC

d.) Echo canceller
- always „0" – HW echo canceller not supported

e.) GSM interface
- 0 = none
- 1, 2, 3, 4, 5, 6, 7, 8, 9,
- a = 10, b = 11, c = 12

f.) Power supply
- 1 = 230V AC & 48V DC
- 2 = 230V AC, 3 = 48V DC
- 4 = 24V DC } After technical evaluation only
- 5 = 12V DC

UTILIZATION EXAMPLES:

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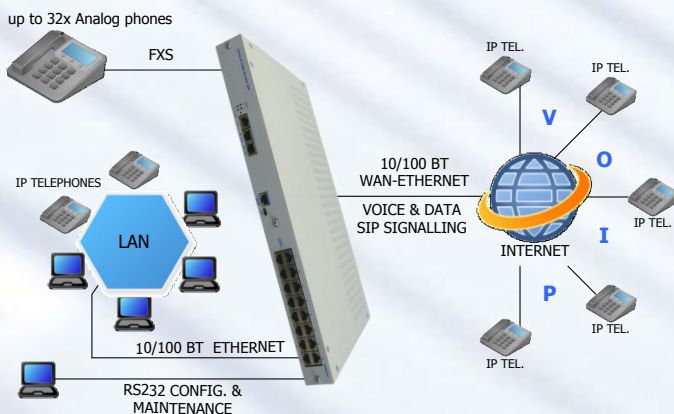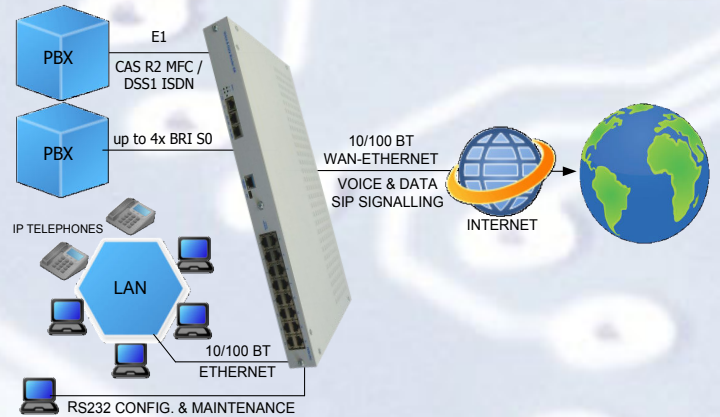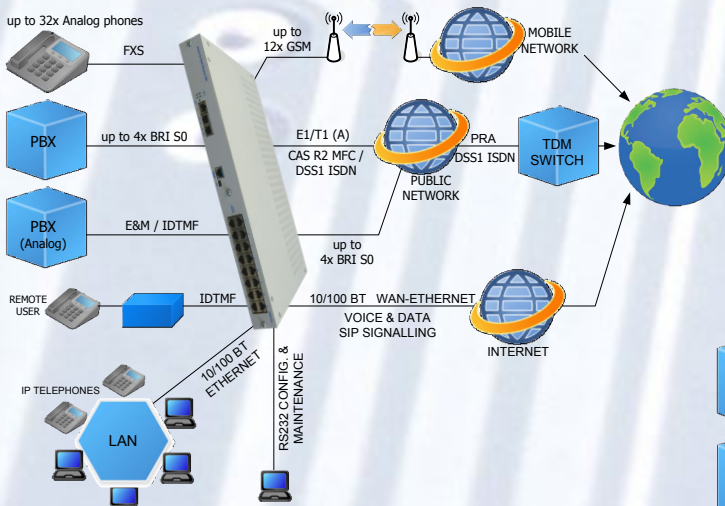
VOICE & DATA ROUTER BB
PRODUCT CODE: ITX 495 13

Voice and data router with high variability of configuration and utilization. Can be used as BRI/E1/GSM/VoIP gateway TDM/VoIP/ISDN PBX, multiplexer and signaling converter.

SYSTEM & HW:
- Based on open-source project ASTFIN
- OS Linux
- Asterisk SW v 1.4x
- BLACKFIN procesor BF527 600MHz
- 64 MB RAM
- 128 MB NAND Flash
- 8 MB DATA Flash

GSM PARAMETERS:
SIMcom modules:
- 4x / 8x / 12x GSM SIM port
- 4 freq.bands 850/900/1800/1900 MHz
- 2G, voice service only
- Data transmission and SMS not supported

SIGNALING:
VoIP:
- SIP signaling
E1:
- ISDN DSS1 –ZAPTEL 1.4
ISDN:
- Euro ISDN EDSS – 1/ETSI PRI/ NET5
- ETS 300 011 (ISDN PRI UNI)
- ETS 300 012-1 (ITU – T I.430)
- ETS 300 402-2 (ITU-T Q I.921)
- ETS 300 403-1/2 (ITU-T Q.931)
- ETS 300 102-2 (ITU-T Q.931)
BRI:
ISDN DSS1

MANAGEMENT:
- Device is being supplied pre-configured
- Web management – GUI
- Terminal access
- Local config RS232 interface
- Remote management via Ethernet, SSH, FTP, HTTP
- SNMP protocol
- QoS, TOS / DiffServ

INTERFACES:
- 8x **BRI** S0 TE/NT with line powering option –48V DC
- 1x **E1/T1** RJ45
- 1x **LAN** ETHERNET 10/100BT
- 1x **WAN** ETHERNET 10/100BT
- 1x RS232 console
- 0-12x **GSM**

VOICE CODECS:
- G.711 (A-law, μ-law)
- G.726
- G.729 annex A&B (license not included)

VARIANTS:

ITX 495 13. a b c d e f

a.) BRI interface
1 = 8 BRI S0
6 = 6 BRI S0

b.) Analog interface
0 = none
8 = max. 8 analog modules

c.) E1 interface
0 = none
1 = 1x RJ 45
4 = 1x BNC

d.) HW echo canceller
Always „0" – HW echo canceller not supported

e.) GSM interface
0 = none
1, 2, 3, 4, 5, 6, 7, 8, 9,
a = 10, b = 11, c = 12

f.) Power supply
1 = 230V AC & 48V DC
2 = 230V AC,   3 = 48V DC
4 = 24V DC ⎤ After technical
5 = 12V DC ⎦ evaluation only

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FEATURES:

- Possibility to combine cards to 19" 6U rack
- Maximum 10 concurrent VoIP/SIP calls
- PBX functions: call redirection, hold call, music or announcement generating to waiting/holded caller, answer call, speed dial, automatic operator
- Call progress tone generating (dial, busy, ringtone, etc.)
- Caller ID generating ang detection
- Informating announcements playback
- Internal timeslot cross-connect for TDM calls
- SW echo canceller and jitter buffer
- DTMF generating and detection
- Fax via G.711 (T.38 not supported)
- Various criteria for call routing & Basic data routing
- QoS / TOS / DiffServ
- Power supply 19" 1U version: 85 to 260V AC, or -65 to -40V DC

UTILIZATION EXAMPLES:

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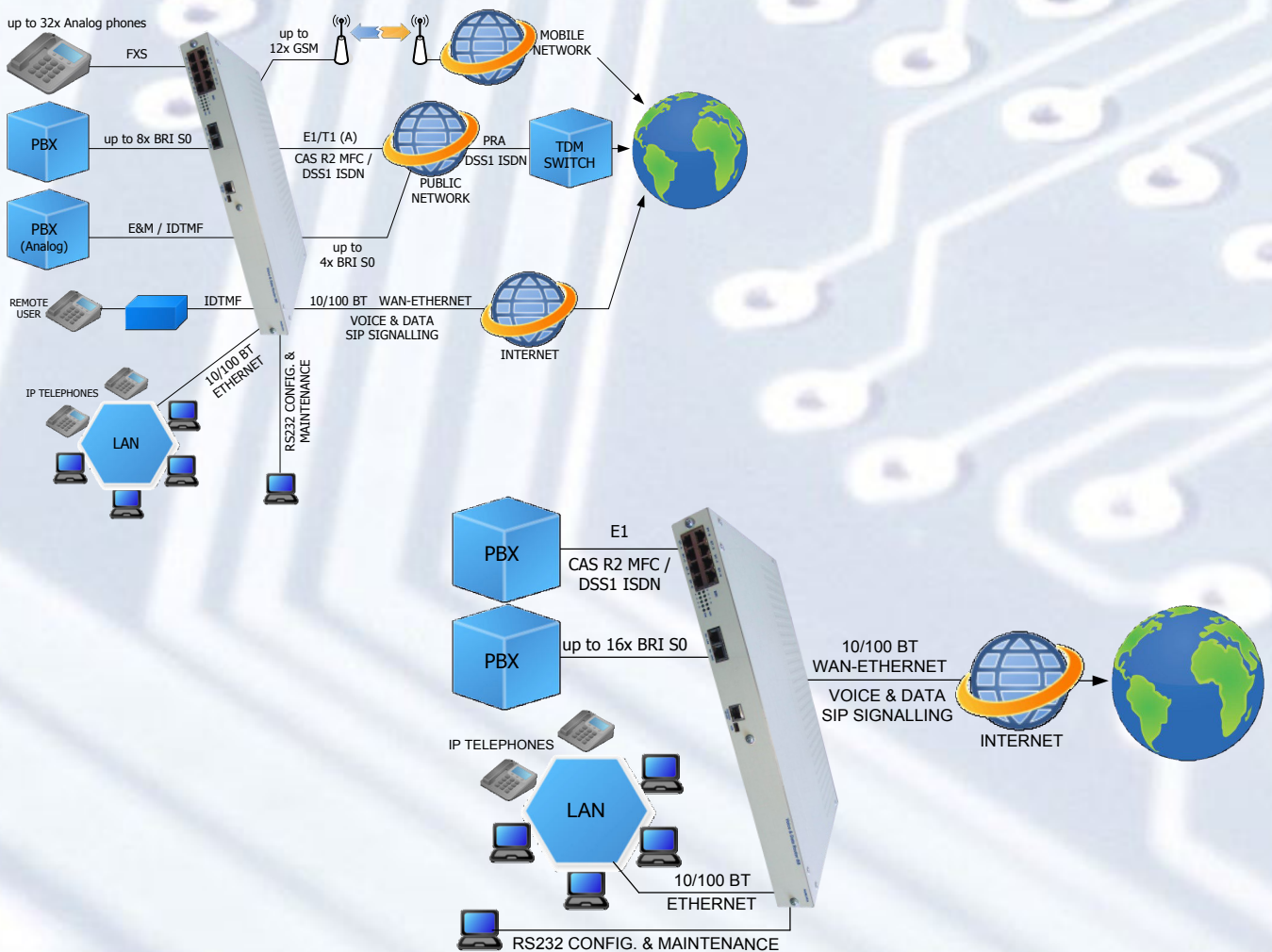
A-MUX 32P

PRODUCT CODE: ITX 482 90; ITX 482 91

Analog multiplexer with full availability and various types of analog signaling and PRI ISDN DSS1 signaling covering all essential functions of Private Branch Exchange (PBX).

INTERFACES:
- 1x **E1** G.704 (120 Ohm, RJ45) signaling ISDN DSS1
- 1x **Ethernet** 10/100 BT auto MDIX option
- 1x **RS232** (V.24) RJ45
- 8 positions for extending **analog voice modules** (terminated with RJ45)
- Possibility to combine A-MUX cards/devices to 19" 6U rack

MODULES:
- **FXS** (analog subscriber), max.8 pcs **ITP 182 22** - 4-fold/quad
- **FXO** (analog trunk), max.8 pcs **ITP 182 23** - 2-fold/dual
- **E&M** signaling (pulse/permanent), several types, max.8 pcs **ITP 182 26** - 2-fold/dual
- **MB/LB** telephone, max.8 pcs **ITP 182 27** - 2-fold/dual
- **IDTMF**, max.8 pcs **ITP 182 25** - 4-fold/quad
- P signaling (3 wire DID), max.8 pcs **ITP 182 24** - 2-fold/dual
- Data module 2x **X.21** DCE/DTE **ITP 136 52.1** – 2-fold/dual

MANAGEMENT:
- Local PC configuration via V.24 (RS232) interface, respectively via 10/100 BT UDP
- Remote configuration and maintenance via TCP/IP
- Configuration BackUp to PC and possibility of remote firmware upgrade
- Diagnostics of all interfaces and detailed call log

SIGNALING:
- ISDN DSS1
- IDTMF

FEATURES:
- Multiplexer of Analog, PRI and data interface
- Converter of FXO, FXS, E&M to E1/PRI
- Converting and concentration of various types of analog signaling to ISDN DSS1
- Allow to merge/concentrate interfaces in following maximum quantity:
  - 32 analog FXS interfaces
  - 16 analog E&M interfaces
  - 16 analog IDTMF interfaces
  - 8 analog FXO interfaces
  - 8 analog MB/LB interfaces
  - 16 analog P signaling 3 wire DID interfaces
 - 2 data X.21 interfaces
  - 2 data RS 485 interfaces
- Cross-connect of data interfaces n_x64, respectively 10/100 BT to E1 timeslots (DACCS)
- Possible to connect LAN over specified E1 timeslots
- Possible to connect OPX station or various analog converters (IDTMF sig.)
- Various options for routing, analysis, adjustment and restrictions of dialing (appropriate for private networks)
- Flexible numbering, Caller ID generating and transmission (also on analog lines)
- 1U desktop/rack-mount, or 19" 6U rack (8 cards) version) - crossconnect possibility via DyMUX (8xE1)
- Possibility of synchroniztion from E1 G.703 or from synchronous interface
- Power supply -48V DC

UTILIZATION EXAMPLES:

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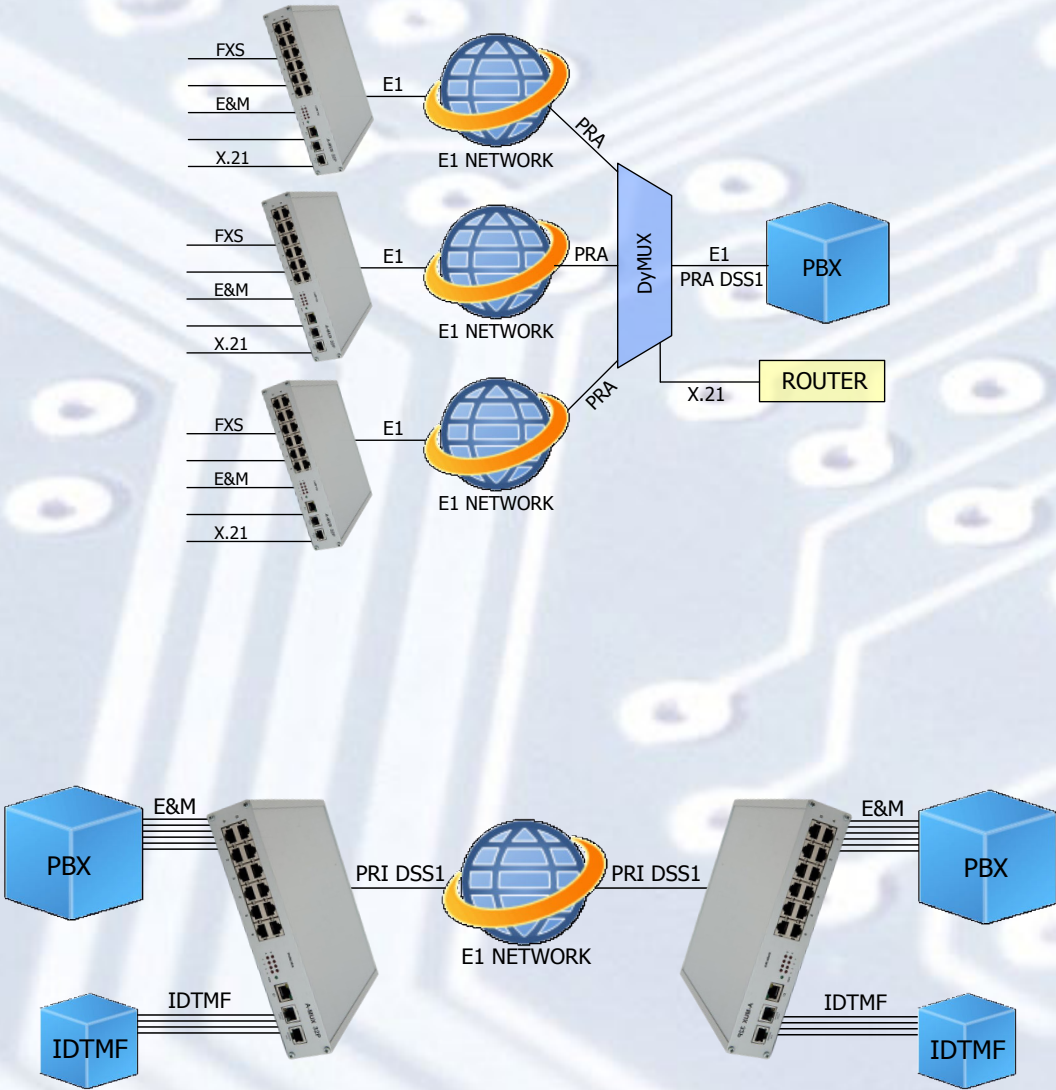
ITX 32M
PRODUCT CODE: ITX 471 31; ITX 471 32

Multifunctional device which allows function changing (if enabled by software license). „All-in-one" - converter, multiplexer and router.

DEVICE FUNCTIONS:

A.) CONVERTER
-data interfaces, respectively 10/100 BT interface conversion to **E1**
B.) TIMESLOTS CORSSCONNECT - DACCS
-crossconnect of data interfaces $n_x 64$, or 10/100 BT interface to **E1** timeslots
-crossconnect of E1 timeslots
C.) INVERSE MULTIPLEXER
-connecting Ethernet interface 10/100 BT (LAN networks) over 2 x E1
D.) VLAN ROUTER
-routing from Ethernetu to specified E1 interfaces according to VLAN ID
D.) E1 OVER ETHERNET
-transmission of 2x E1 over Ethernet - UDP/IP
E.) MULTIPLEXER $n_x 64$ Kbps
-transmission of selected E1 timeslots via synchronous data interfaces $n_x 64$ Kbps
-necessity of the similar device at both network ends/terminations.
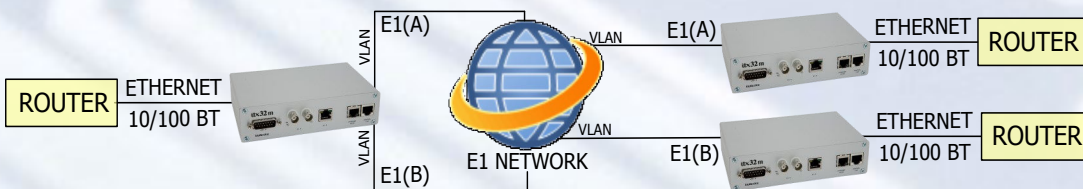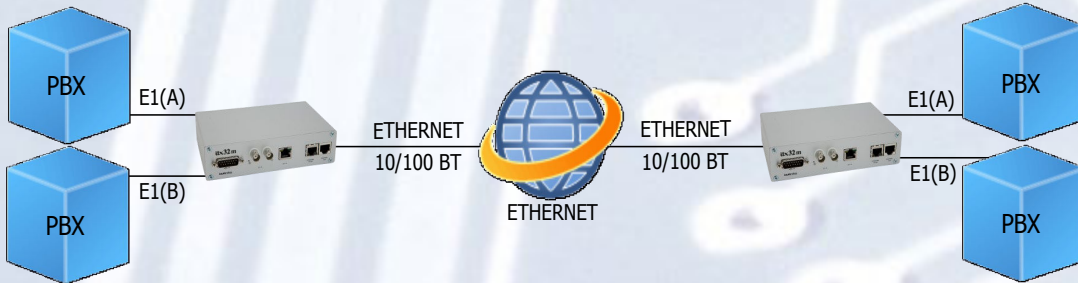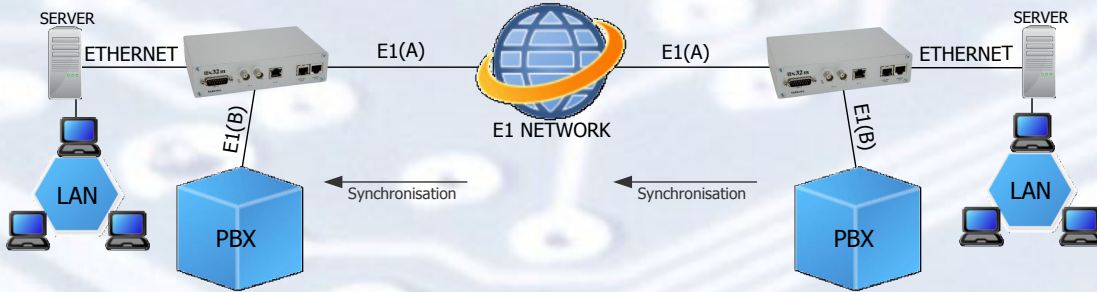
INTERFACES:
- 2x **E1** (G.703/G.704, 120/75 Ohm, RJ-45/BNC)
  - -E1 unframed 2 048 Mbps
  - -E1 framed $n_x 64$ Kbps (n = 1 to 31 timeslots)
- 2x Data interfaces X.21 / V.35 / V.36 / RS530 / RS232 / RS485
- 1x **Ethernet** 10/100 BT auto MDIX option
- 1x RS232 (V.24) connector RJ45 - for local configuration
- 2x 2w/4w interface

MANAGEMENT:
- Remote maintenance, control and configuration via Ethernet, TCP/IP, HTTP
- Local configuration via V.24 (RS232) interface or 10/100 BT, UDP
- **SNMP** protocol
- Diagnostics of all interfaces
- Synchronization from **E1** G.703/G.704 or from synchronous interface X.21, or device itself can be source of synchronizing impulses
- Availability of configuration backup (to PC)
- Possibility of remote firmware upgrade
- Device function change is achieved by changing configuration settings which are allowed by software license.

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UTILIZATION EXAMPLES:

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DYMUX SG
PRODUCT CODE: ITX 482 78

Multifunctional PRI multiplexer intended for call concentration, routing and static cross-connect of any PRI/E1 timeslots.

INTERFACES:
- 4x or 8x **E1** G.704 (120 Ohm, RJ-45), signaling **ISDN DSS1**
- **E1** framed n_x64 Kbps (n= 1 to 31 timeslots)
- 1x **Ethernet** 10/100 BT auto MDIX option
  1x RS232 (V.24) RJ45
- Analog interface 2w/4w
- Data interface X.21, connector 15pin D15F
- Availability of 1U desktop/rack-mount or 19" 6U rack (16 cards) version

MANAGEMENT:
- **SNMP** protocol
- Diagnostics of E1 interfaces
- Universal configuration SW (Uniman) for PC
- Local configuration via V.24 (RS232) interface or 10/100 BT UDP
- Remote configuration and maintenance via TCP/IP
- Possibility of configuration backup (to PC)
- Possibility of remote firmware upgrade

LINE CODE:
- HDB 3

SIGNALING:
- PRA - ISDN **DSS1**

FEATURES:
1U desktop/rack-mount or 19" 6U rack (16 cards) version
Synchronization from E1 G.703 or internal clock
SW variants:
- STAMUX - static timeslots cross-connection **(DACCS)**
  - static connection of synchronous data interfaces to **E1**
- DYMUX - static timeslots cross-connection + dynamic concentration of voice calls, call routing (DSS1 sig.)
  - dynamic (statistic) voice calls concentration
  - calls routing based on specific criteria
  - parameters change of number of caller/calling party
  - call/tariff charging, generating of charging/tariff pulses
  - dial authorization analysis
  - detailed call log

- DYMUX SG functions can be changed by changing firmware (sw license) and can be used as multifunctional device.
  - inverse multiplexer 8 x E1
  - transmission of E1 over Ethernet
  - routing data timeslot to Ethernet
  - VLAN router
  — Adding ID VLAN for data timeslots
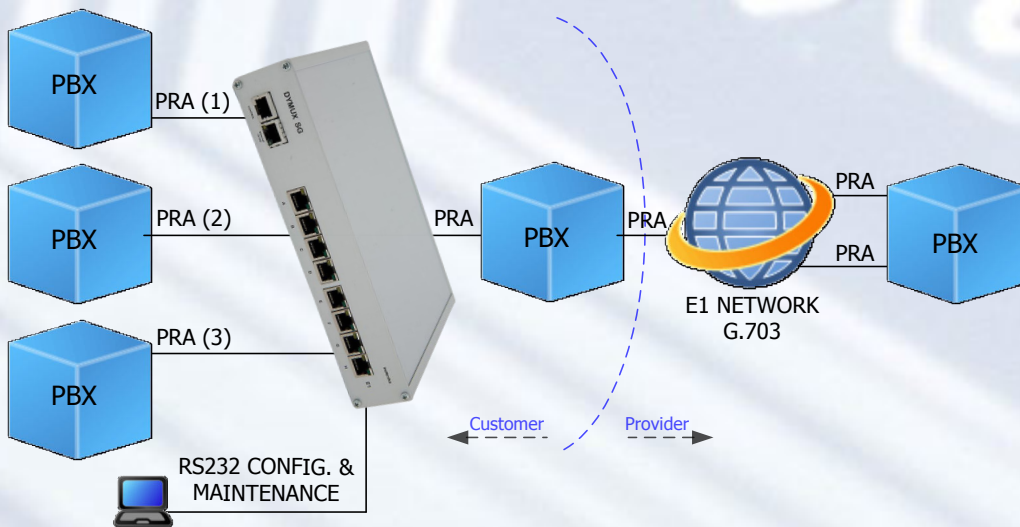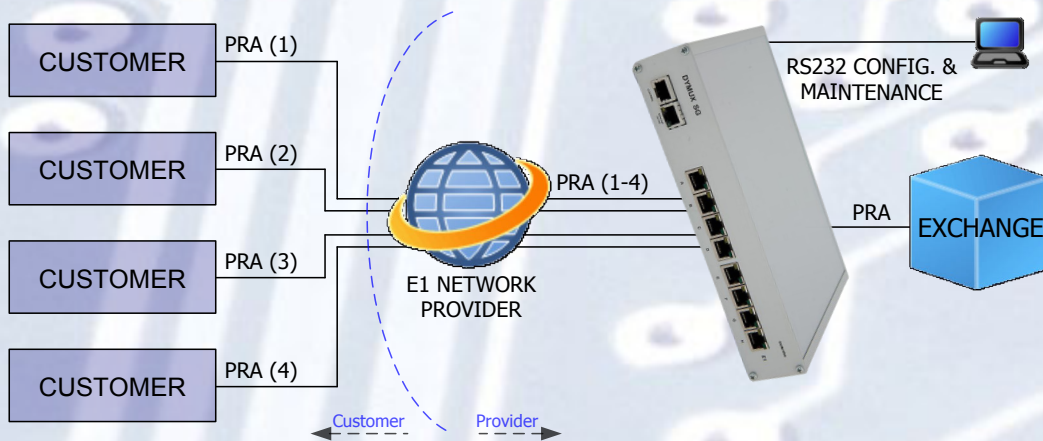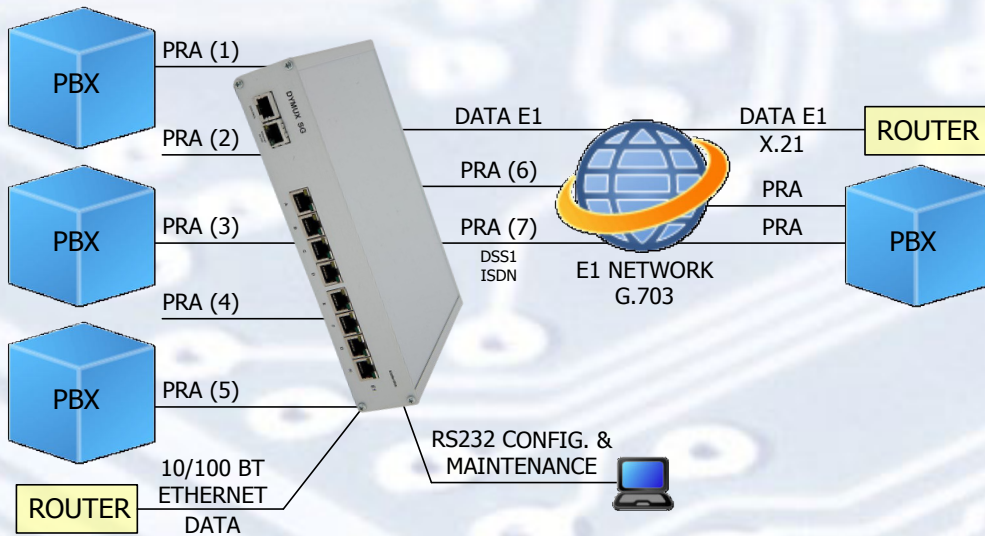 — Adding/removing VLAN tags
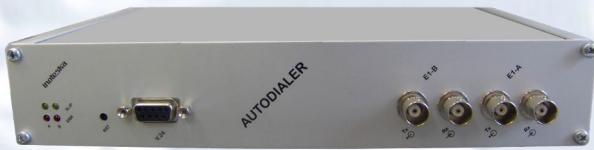 — Switching function

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UTILIZATION EXAMPLES:

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AUTODIALER PRI 3xE1

PRODUCT CODE: ITX 482 03

Least-cost voice router for PRI/E1 interface. Router is being installed between PBX (Private Branche Exchange) and Public Exchange.

INTERFACES:
- 3x **E1** (120/75 Ohm, RJ45/BNC)
- 2x Data interface X.21 / V35 / V.36 / RS530 / RS232
- 1x RS232 (V.24)
- 1x Ethernet 10/100 BT for control and configuration

SIGNALING:
- ISDN **DSS1**
- **CAS** R2 MFC
- Available signaling conversion ISDN DSS1 to CAS R2 MFC and vice-versa

MANAGEMENT:
- **E1** interfaces diagnostics
- Configuration from local PC via RS232 (V.24) interface
- Configuration settings back-up to PC
- Remote configuration and maintenance via TCP/IP, internal ISDN modem, external analog modem
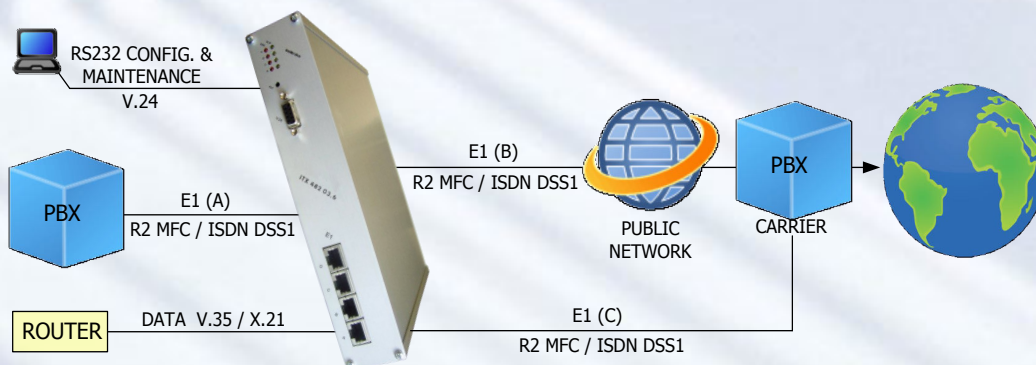- Possibility of remote firmware upgrade

FEATURES:
- Possibility of **signaling conversion** from **ISDN DSS1** to **CAS R2 MFC** and vice-versa
- **Calls re-routing** from E1(A) to E1(B) or E1(C) based on dial analysis
- **One-step dial:** carrier prefix + called party number
- **Two-step dial:** call to carrier, after connecting -> identification number + called party (DTMF)
- 19 digits positions available for carrier number and 19 digits positions for identification number
- Calls **routing up to 8 carriers** max., or no routing
- Routing exceptions & 600 conditions/regulations for (re)routing
- 200 forbidden/prohibited numbers (or 200 exceptions)
- **Real– or pseudo– call tarif charging**, real time clock
- Dialing tone 425 Hz detection and 1100/1633 Hz tone detection for real call tarif charging
- Possibility to reserve specified E1 timeslots for external data transmission (crossconnect -DACCS)
- **Bypass connection E1(A) – E1(B)** in case of device is turned off or out-of-order/failure
- Calls statistics
- Power supply 230V AC / 5V DC

UTILIZATION EXAMPLES:

RS232 CONFIG. & MAINTENANCE V.24

PBX

E1 (A)
R2 MFC / ISDN DSS1

ROUTER

DATA V.35 / X.21

E1 (B)
R2 MFC / ISDN DSS1

PUBLIC NETWORK

E1 (C)
R2 MFC / ISDN DSS1

PBX
CARRIER

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TT GSM
### PRODUCT CODE: ITX 498 03

Track GSM phone (TT GSM) is a gateway to GSM network and replaces LB track phone. Phone was developed based on specific demand of our customer in order to provide reliable GSM connection for operational spots located along customers large transportation network/infrustructure.

During the development there was a strong emphasis on following features: Limitation of numbers which can be dialed - max.10. Limitation of numbers which calls can be received from - max.10. Ability to call in case of electricity blackout. Robustness and simple operation (maximum user friendly) and durability.

Essential component, which TT GSM is built from, is analog phone Gigaset DA710. It is mounted to box which is equipped with control board and integrated back-up battery. With ability to limit/specify numbers for calls coming in and out, TT GSM phone secures that line is utilized for authorized purpose only.

FEATURES:
• Allows to dial/call up to 10 defined numbers max. (shortcut/speed-dial available using digits 0-9)
• Allows to receive calls from up to 10 defined numbers max.
• 24 hours stand-by with power supply from back-up battery only
• 4 hours call time with power supply from back-up battery only
• Locking of config mode prevents any settings changes by unauthorized personnel
• External GSM antenna
• Remote configuration available from other telephone via DTMS or via SMS

TT GSM   TT GSM

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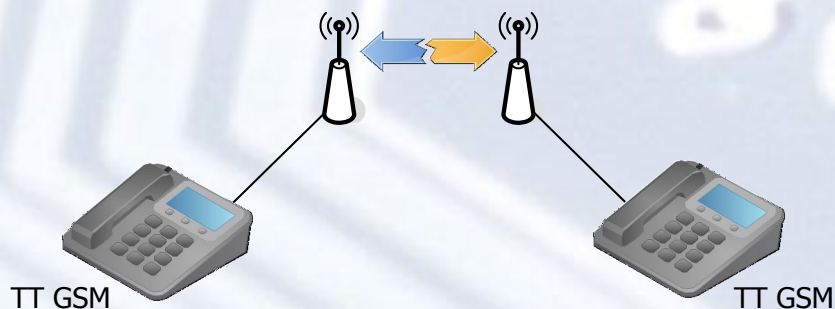
SALES TERMS & CONDITIONS

Warranty:
Product warranty period is 24 months since the date of delivery or authorized installation. Warranty does not apply in case of an accident or physicall damage, non-professional improper handling and use, or force majeur.

Lead time / delivery period:
Standard lead time is 6 weeks since formal purchase order is received and confirmed, or since the date of sales contract signing. Lead time for each individual purchase order is set after the mutual agreement of buyer and seller.

Service & Repairs:
Authorized warranty repairs are performed ASAP after receiving the announcement of failure in written form. Out-of-warranty repairs are performed within 30 days after the device is delivered to repair center with detailed description of malfunction.

In case of any questions please do not hesitate to contact us.

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