ATEÏS reserve the right to change specifications without notice.
Dear Friends,

Once again we proudly present to you our new catalogue of products:

**IP products**

Audio over IP has become a very common item nowadays. Encoding/decoding audio is one thing, but bringing the features that the market needs is another one. By adding contact closures, relays, event management, scheduler, priority management, great TERRA-SERVER software and a lot of other features, the TERRACOM family will answer to your needs and extend the applications where you could use them.

Please take your time to study this collection of valuable information and ensure yourself that ATEIS delivers the right products and the best flexible solutions you have been looking for.

As you know, ATEIS is also always ready to develop new features to win together your project.

Take the opportunity to share your thoughts with us and we will provide you the solution!

We are looking forward to your business

Team ATEIS is

**Delivering Your Message**
TERRACOM is our new audio over IP terminal range. A large choice of devices adapted to different markets. Cost effective solution which uses the standard network or internet for transmission, intercom and monitoring.

TERRA-EX & TERRA-EXA / IP Audio Decoder
TERRA-EX / TERRA-AMP / IP Audio Terminal
TERRA-FDX / TERRA-DS / TERRA-FXO / Intercom TERRA FAMILY

Intuitive and powerful audio distribution software, TERRA SERVER handles the announcement, the music, the zoning, the paging, the scheduler & the priorities.

TERRA-IO is a network programmable I/O device with serial port, adapted to automation and monitoring applications.

APPLICATION SOFTWARE FOR PA/VA & BGM

APPLICATIONS
APPLICATION PA-BGM / Terracom Architecture for Public Address - Background music
APPLICATION INTERCOM PABGM / Terracom Architecture for Intercom - Background music
APPLICATION TRANSPORT / Terracom Architecture for Public Address - Voice alarm
INSTORE APPLICATION / Terracom Architecture for background music in retail shops

RTP = Real-time Transport Protocol is a standard packet format for delivering audio over IP networks. RTP supports data transfer to multiple destinations through multicast.
SIP = Session Initiation Protocol is a standard protocol to initiate a communication. It is often used by the IP telephone.
POE = Power Over Ethernet technology describes a system to pass electrical power safely, along with data, on Ethernet cabling.
LAN = A Local Area Network is a computer network in a limited geographical area. There are usually no router in such a network.
PBX = A private branch exchange (PBX) is a telephone exchange that serves a particular office.
DTMF = Dual-tone multi-frequency signaling is used for telephone signaling. DTMF assigns a specific frequency (consisting of two separate tones) to each key so that it can easily be identified.
NTP = The Network Time Protocol is a protocol for synchronizing the clock of devices over a network.
IGMP = The Internet Group Management Protocol is a communications protocol used to establish multicast group memberships.
VLAN = A virtual local area network has the same attributes as a physical local area network (LAN), but it allows for end stations to be grouped together even if they are not located on the same network switch.
SPI = Serial Peripheral Interface Bus.
In 2006, ATEIS has made its first audio over IP project for train stations in Paris. 5 years of experience later we have developed a totally new range based on the most advanced standard. Each audio over IP application is different. To answer to this various kind of situation, ATEIS has built a wide range of audio over IP products.

Why IP?

Nowadays, almost all the buildings are equipped with a network infrastructure. The audio over IP technology has the huge advantaged to be able to use this existing network and to cross easily routers and even use the internet.

Where to use it?

You would be surprised if you knew where we have already installed Audio over IP solutions. From the standard applications like shopping malls, hotels, museums, theme parks, hospitals, schools to more tricky and original applications... IP networks are everywhere.

Benefits

With TERRACOM, you will have a price competitive solution to answer to a lot of applications. By using the standard network and the POE technology you will simplify the installation and the network topology. Because it is IP based, the monitoring and the maintenance are simplified.

Powerful platform

These small TERRACOM devices have a powerful processor, Linux based. You will find a remarkable list of features like priority management, backup management, event management, scheduler, local channel and volume control, paging, echo cancellation, noise reduction.

Professional audio

ATEIS has made the choice of no compromise. Instead of non professional cinch connector, the TERRACOM have balanced audio on terminal blocks adapted to the Pro Audio market.

Audio streaming

TERRACOM offers the possibility to stream using the standard RTP protocol in unicast, multicast or broadcast. For some applications, like the Instore, the TERRACOM can stream using shoutcast/icecast protocols.

SIP benefits

All TERRACOM devices are using the SIP technology. It brings you the benefit to have a standard session protocol with its inherent simplicity, to be compatible with IP PBX & soft phone, to forget the complex management of IP address world.

PoE benefits

All Terracom devices support the POE, Power Over Ethernet. With POE, the constraint of having AC power outlets is eliminated. This provides flexibility in placing TERRACOM devices in the most optimal locations instead of choosing locations where power is available. Optimal placement leads to more efficient network designs and better application performance. And if one day you want to change the location of your Terracom, it would be easier. The network installation can be accomplished easier, faster and for less cost. It is also safer because you can centralize the power management and protect it with an uninterruptible power supply (UPS). And finally with a manageable PoE LAN switch via a web browser or by SNMP, remote networking devices can be easily reset or shut down saving the time and expense of dispatching a technician.

Management

Terracom embeds a web server that enables you to control the Terracom through your favorite internet browser. For bigger system, you can use the SNMP protocol. For more complex system, the TERRA-SERVER will be your supervisor and the management solution of your installation.
Which TERRACOM device fits your project best?

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<th>TERRA-IO</th>
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<tbody>
<tr>
<td>Mic-Line in/ Stereo line in</td>
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<td>2/1</td>
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<td>S/PDIF</td>
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<th>TERRA-AMP</th>
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<th>TERRA-IEX</th>
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<th>TERRA-AMP</th>
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<th>TERRA-DS</th>
<th>TERRA-FX0</th>
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<td>Matrix with priority management</td>
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<td>1 to group paging</td>
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<td>X</td>
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</table>

* = at extra costs
TERRA-EX / IP audio decoder

TERRA-EX is an IP audio decoder with an optional USB flash memory interface for playlist backup or prerecorded announcement. Since the output device is the most price sensitive part of an IP audio system, ATEïS has proposed the best cost effective output device with 2 balanced outputs, a scheduler and POE.

The TERRA-EX will be your ideal IP solution for any applications where you need a simple balanced audio output with some I/O contacts & relays.

Thanks to its price, the USB backup, the scheduler and the advertising management, the TERRA-EX is also the perfect solution for in store applications. The volume and the channel can be modified locally with an IR remote control.

TERRA-EX CHARACTERISTICS

• 2 balanced independent line outputs
• 1 headphone output on mini-jack
• Audio outputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Ethernet interface including POE (Power over Ethernet)
• 24 VDC power supply (if no POE available)
• G.711, G.722, MP3 audio decoding
• 1 optional USB port for USB memory stick
• Power & Status LED
• 1 IR receiver - optional
• 3 contact inputs
• 1 relay output
• 1 RS 232 on Euro Block
• Power consumption: 2 W
• Weight: 433 g
• Dimensions (mm): Depth 104, Height 32, Width 109.

TERRA-EXA / Amplified IP audio decoder

TERRA-EXA is an IP audio decoder with built-in 2 x 20 W amplifier. In a lot of applications this amplified IP terminal for 8 - ohm speakers reduces price and space.

TERRA-EXA CHARACTERISTICS

• 2 x 20 W independent amplified outputs
• Audio outputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Ethernet interface including POE (Power Over Ethernet)
• 24 VDC power supply (if no POE available)
• G.711, G.722, MP3 audio decoding
• Power & Status LED
• 3 contact inputs - optional
• 1 relay output - optional
• Power consumption = 48 W
• Weight: 453 g
• Dimensions (mm): Depth 104, Height 32, Width 109.
TERRA-IEX / TERRA-AMP

TERRA-IEX CHARACTERISTICS

• 2 Mic/line balanced inputs
• 2 independent balanced line inputs
• 1 headphone output on mini-jack
• 1 SPDIF Transceiver - optional
• Audio inputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Audio outputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Ethernet interface including POE (Power Over Ethernet)
• 24 VDC power supply (if no POE available)
• G.711, G.722, MP3 audio encoding/decoding
• 1 USB port for USB memory stick
• Power & Status LED
• IR receiver - optional
• 3 contact inputs
• 1 relay output
• RS 232 on Euro Block
• Power consumption: 3 W
• Weight: 434 g
• Dimensions (mm): Depth 104, Height 32, and Width 109.

TERRA-AMP CHARACTERISTICS

• 1 mic/line balanced input
• 2 balanced independent line outputs
• 2 x 15 W (Ω) independent amplified outputs
• 1 headphone output on mini-jack
• Audio inputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Audio outputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
• Ethernet interface including POE (Power over Ethernet)
• 24 VDC power supply (if no POE available)
• G.711, G.722, MP3 audio encoding/decoding
• 1 USB port for USB memory stick
• Power & Status LED
• 3 contact inputs
• 2 relay outputs
• RS 232 on Euro Block
• Power consumption: 36 W
• Weight: 460 g
• Dimensions (mm): Depth 104, Height 32, and Width 109.

The TERRA-IEX, a 2 channel audio over IP encoder/decoder is the perfect solution to operate as an audio source for your IP network. You can encode mic/line balanced line inputs or an optional SPDIF input into a unicast/multicast. The same device provides you also 2 independent balanced outputs for full-duplex communication. By adding an USB memory stick, play lists can be used as backup of the decoded stream or as a source for the IP streaming. The volume and the channel can be modified locally with an IR remote control.

TERRA-AMP is an IP audio terminal with built-in 2 x 15 W amplifier on two independent outputs, USB flash memory interface for playlist backups or prerecorded announcement, 1 mic/line balanced input.

In a lot of applications this amplified IP terminal for 8-ohm speakers reduces price and space.

The ideal solution for Commercial audio & Public Address systems. The mic & line inputs can be played locally or can be used as a source for a network stream.
Introducing a new level of inter-company security and communication systems.

ATEIS brings a Revolutionary IP-based intercom systems that has NO centralized equipment or matrix, the Network itself is your switching, matrix! These attractive systems offer a sleek, contemporary appearance with recessed wall mounted and flush mounted "Slave" and "Master" call stations. They are the easiest, most affordable way to build security, convenience and safety into your environment.

Hardware quality

All products fit in the tightest of spaces possible. Our desktop consoles are equipped to link directly into the VLAN and are ready to use. Our outdoor panels are vandal proof and are designed to withstand the toughest weather conditions.
In an IP intercom system, you may need to call a phone or a cell phone. The TERRA-FXO offers the possibility to create a link between the IP intercom and the telephone, thanks to two telephone lines FXO, 2 telephone set interfaces & DTMF management.

TERRA-FDX / Full duplex IP terminal

Specially designed for paging and intercom systems, the TERRA-FDX offers the possibility to create bidirectional IP links for high audio quality and voice, contacts and serial data. The streaming can be full-duplex for PCM, G.711, G.722 and even mp3.

TERRA-FDX CHARACTERISTICS

- 2 Mic/line balanced inputs
- 2 independent balanced outputs
- Audio inputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
- Audio outputs: maximum level + 5 dB, bandwidth 20 Hz - 20 kHz
- Ethernet interface including POE (Power Over Ethernet)
- 24 VDC power supply (if no POE available)
- G.711, G.722, MP3 audio encoding/decoding
- 1 USB port for USB memory stick
- Power & Status LED
- 3 contact inputs
- 2 relay outputs
- RS232 on Euro Block
- Power consumption: 2.66 W
- Weight: 430 g
- Dimensions (mm): Depth 104, Height 32, Width 109.

TERRA-DS / IP door station

Wall mount SIP / IP INTERCOM station with up to 4 buttons. The TERRA-DS is the indispensable device for INTERCOM solutions. ATEÏS proposes 4 different TERRA-DS, going from 1 to 4 buttons.

TERRA-DS CHARACTERISTICS

- Built in condenser microphone
- Built in 2 W loudspeaker
- G.711, G.722, MP3 audio encoding/decoding
- 1 to 4 buttons on the front panel
- SPI for keypad extension
- 2 relay output
- Ethernet interface including POE (Power Over Ethernet)
- 24 VDC power supply (if no POE available)
- Power consumption: 2 W
- Dimensions: Depth: 35, Height 220 and Width 110
- Weight: 808 g.

TERRA-FXO / IP Telecom gateway

In an IP intercom system, you may need to call a phone or a cell phone. The TERRA-FXO offers the possibility to create a link between the IP intercom and the telephone, thanks to two telephone lines FXO, 2 telephone set interfaces & DTMF management.

TERRA-FXO CHARACTERISTICS

- Ethernet interface including POE (Power Over Ethernet)
- 24 VDC power supply (if no POE available)
- 2 telephone lines (FXO)
- 2 telephone set interfaces
- G.711, G.722, MP3 encoding/decoding
- RS232 on Euro Block
- 2 Status LEDs
- Power consumption: 2 W
- Dimensions (mm): Depth 104, Height 32, and Width 109.
- Weight: 430 g.
TERRA-SERVER is an audio distribution system for Public Address and evacuation purposes which rests on an Ethernet/IP networking architecture. It is capable of making microphone calls, starting prerecorded messages or routing music through the network from a central based server and/or operator unit.

**TERRA-SERVER Features**

- Client-server model.
- Up to 99 priority levels.
- Hundreds of remote stations.
- Ethernet, TCP/IP, VLAN compliant.
- Scheduler for automatic audio messages broadcasting.
- Record messages.
- Historic log file of the whole system.
- Paging record of all the audio played out.
- Hardware supported:
  - PPM15.
  - TERRA COM range.
  - IDA8.
  - DIVA8.

**Zone management**

An intuitive drag & drop application allows you to create buttons representing zones or group of zones. You can easily customize the graphical user interface. Bookmarks will help you to handle hundreds of zones.

**Announcement**

A live announcement can be started with or without chime. If one of the destination zones is busy and if the live announcement has a lower priority than the existing message, the TERRA-SERVER will point out that the destination cannot play the message and/or automatically record the live message and plays it when the zone is ready. A live message can also be first recorded then played locally to check than it fits the user’s expectation and finally streamed out to the destination(s).

**Music**

With an ATEIS solution, your public address & voice alarm system or your intercom system can be used for background music. Thanks to priority management, the music will never disturb the announcements. The music can be either play lists of mp3 files or dedicated hardware inputs to plug a CD player for example.

**Scheduler**

In some applications, you will need to schedule the announcement and the music playlist like for schools, theme parks… TERRA SERVER proposes a scheduler for programming once, daily or weekly different events.

**Client server**

The software can also be installed on multiple computers at the same time, associate with microphone paging desks, IP matrix, and IP terminals. In the network, at least one computer must act as TERRA-SERVER and carrier the content of prerecorded messages and the music libraries. This server-PC is also used for system configuration settings and logging. Because this server plays a vital role in the system it can be linked to a back-up server system.
Figure 1: Full IP PA/VA configuration

Figure 2: Redundant server setup
TERRA-IO / I/O IP Terminal

The TERRA-IO is a TERRACOM device without audio inputs & outputs. Although it can be used in Audio applications where you will need a lot of analog I/O, the input contacts and the relay outputs will be useful in industrial & home automation applications or when you need to monitor contact closures. The serial link can be used for IP tunneling between a PC and a device like a sensor for tele monitoring. Thanks to the SNMP, the management is adapted to big systems.

In this example schematic, The TERRA-IO is used as an access controller to detect unwanted visitors and start an alarm. The temperature sensor linked with the RS232 to the TERRA-IO will send to a server its status. This will allow the control center to activate procedures if something reports an error. With inputs contacts, relay outputs, serial link, the TERRA-IO is the ideal platform to interface devices to IP networks.

The serial link can be used for IP tunnelling between a PC and a device like a sensor for telemonitoring. The input contacts and the relay outputs will be useful in industrial & home automation applications or monitoring contact closures.
PPMIT5 / RAC5 / RAC8 / URC / URC200

**PPMIT5 / Generic information**

The PPMIT5 IP paging console is a man-machine interface which allows call-paging, messages broadcasting. Its back-lit touch screen is designed for simple and user-friendly operating. The 3 hardware keys can be freely assigned by software. The PPMIT5 Media console is a versatile device that fits well in a commercial shopping center as for an industrial environment where paging over IP-networking brings flexibility and easy access.

All paging parameters needed for site operating can be programmed: zones assigned to the different buttons, name of zones, group of zones, messages triggering or event control. A total of 168 keys over 12 pages allow zone or group of zones selections. The prerecorded messages and the chime are stored into the PPMIT5 IP paging console. All the settings are done through web pages with your favourite web browser. Thanks to powerful echo cancellation, the PPMIT5 delivers clear sound for full duplex talk.

**PPMIT5 CHARACTERISTICS**

- 5” TFT full colour paging console
- High quality gooseneck microphone
- Built in loudspeaker
- Ethernet interface including POE (Power Over Ethernet)
- 24 VDC power supply (if no POE available)
- Automatic gain control on microphone input
- Echo cancellation / noise reduction
- G.711, G.722, MP3 audio encoding / decoding
- Half or full duplex talk
- Memory space for prerecorded messages
- POWER / FAULT / EVAC LEDs
- 3 key-buttons: User definable using ATEÏS Studio GUI
- 168 Touch fields: 14 pages with 12 keys
- RJ 9 for optional telephone headset
- 2 mini-jack plugs for optional headset
- Microphone: Length: 275 mm, Bandwidth 100 Hz - 7 kHz
- Speaker: Power w rms, Bandwidth
- Weight: 1.1 kg
- Dimensions (mm): Depth 130, Height 78, and Width 250
- Power consumption: 6 W
- Material: metal back, PVC top and sides.

**PPMIT5 / RAC5 / RAC8 / URC / URC200**

**RAC5 / RAC8 /**

5 / 8 Steps remote controller.
Wall mounted level and 5 or 8 sources selectors.

**URC / programmable remote controller**

(RS485).
Programmable remote controller with display.

**Third party controller**

The TERRACOM devices can be controlled with third party devices like Crestron™, AMX™ or Vty™. ATEÏS provides Protocol description for integrators.

**PPMIT5 CHARACTERISTICS**

- 5” TFT full colour paging console
- High quality gooseneck microphone
- Built in loudspeaker
- Ethernet interface including POE (Power Over Ethernet)
- 24 VDC power supply (if no POE available)
- Automatic gain control on microphone input
- Echo cancellation / noise reduction
- G.711, G.722, MP3 audio encoding / decoding
- Half or full duplex talk
- Memory space for prerecorded messages
- POWER / FAULT / EVAC LEDs
- 3 key-buttons: User definable using ATEÏS Studio GUI
- 168 Touch fields: 14 pages with 12 keys
- RJ 9 for optional telephone headset
- 2 mini-jack plugs for optional headset
- Microphone: Length: 275 mm, Bandwidth 100 Hz - 7 kHz
- Speaker: Power w rms, Bandwidth
- Weight: 1.1 kg
- Dimensions (mm): Depth 130, Height 78, and Width 250
- Power consumption: 6 W
- Material: metal back, PVC top and sides.

**PPMIT5 / Generic information**

The PPMIT5 IP paging console is a man-machine interface which allows call-paging, messages broadcasting. Its back-lit touch screen is designed for simple and user-friendly operating. The 3 hardware keys can be freely assigned by software. The PPMIT5 Media console is a versatile device that fits well in a commercial shopping center as for an industrial environment where paging over IP-networking brings flexibility and easy access.

All paging parameters needed for site operating can be programmed: zones assigned to the different buttons, name of zones, group of zones, messages triggering or event control. A total of 168 keys over 12 pages allow zone or group of zones selections. The prerecorded messages and the chime are stored into the PPMIT5 IP paging console. All the settings are done through web pages with your favourite web browser. Thanks to powerful echo cancellation, the PPMIT5 delivers clear sound for full duplex talk.

**RC200 / Programmable remote controller**

(TCP/IP).

The URC200 is a programmable remote controller (TCP/IP) for the TERRACOM & PPMIT5 with TERRA-Server software. The URC200 is powered over Ethernet and easy to integrate with current demands for room controllers like light, curtains, sound and video control.

The full colour display is easy to read and has a low-power consumption to allow for long lines and multiple devices into one system.

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The live announcements are done with dedicated IP console (PPM-IT5), or microphones plugged on TERRA-IEX or TERRA-AMP or TERRA-FDX. The selection of the destination of the announcement is done directly on the PPM-IT5 touch screen or on a PC with a TERRA-SERVER client application. The background music is stored on the TERRA-SERVER or can also be a hardware source like a CD player plugged on a TERRA-IEX. For the outputs an output only terminal like the TERRA-EX can be used or a TERRA-EXA if you need amplified outputs or you can also use the outputs of the TERRA-IEX & TERRA-FDX if you need outputs at the same place than inputs. The priority management is done by the TERRA-SERVER.

Nowadays, there are not really limitations between Intercom & PABGM. You can then decide to have a TERRA-SERVER or not, depending on the complexity of the system needs. Here an example without a Server.

The background music will come from a hardware device like the processor UAPG2 plugged on a TERRA-IEX. Then the priority management is done by the TERRACOM devices themselves.
APPLICATION: TRANSPORT

Terracom architecture for Public Address – Voice Alarm

The TERRACOM range with the IDA8 range offer a powerful solution for transport applications like subways, tramways...

In each station, the IP matrix IDA8 will handle the streaming. In case of use of another standard matrix, a TERRA-EX can deliver the decoded audio stream plus a serial link to control the matrix. For backup reasons, you might need to link a traditional telephone system with the IP system thanks to the TERRA-FXO.

With audio over IP solutions, you can now provide streaming audio over a standard Internet to any shops, restaurants and bars. Thanks to balanced outputs, IR for remote control and logical input for channel/volume selection, the TERRA-EX and the TERRA-EXA are a cost-effective and professional solution.

Advertising management, the winning point

With the TERRACOM solution, you can go one step further: provide the right music and the right publicity everywhere you want. You can with this cost-effective solution easily adapt the advertising messages to each shop. The TERRA-EX will download the messages during the night, store them on the USB key and detect in the stream the moment when it should play them. This unique way of advertising management will give to your customer the impression that they are listening to your own playlist or radio station.

Reliability

The buffer size on the stream reception side has been increased to avoid Internet connection problems. In case of total loss of the Internet connection, the TERRA-EX will switch on the music stored in the USB memory key. This music can be refreshed during the night to change the backup play lists.
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