TERRA-SAP

"THE WORLD'S MOST COMPACT, FULL-FEATURED DSP PROCESSOR WITH AEC"
The TERRA-SAP is part of the Terracom family of audio over IP products. As such it can be sitting on the LAN and be programmed and controlled over IP as well as receive audio streams and be monitored over IP. Full hands-free intercom communication with the location is also an option with the TERRA-SAP. However, whether you use it over IP or stand-alone the TERRA-SAP is a full featured DSP processor in its own right. It has 7 different inputs, gain sharing auto-mixer, various other mixers, and all the DSP functionality your average installation requires. Applications range from small conference rooms, school auditoriums, restaurants to virtually any environment where a multi-input DSP processor is needed. Despite its small footprint the front panel still features volume, bass, and treble control for the end-user and local volume control and audio input selection can also be managed using our inexpensive RAC5 or RAC8 wall-mount control panels. The TERRA-SAP also features adequate control inputs and outputs to receive and send commands from and to adjacent systems such as screens, fire alarm system, etc. Third party control is also possible. The Terra-SAP also includes a 20W x 2CH Class-D amplifier along with analogue audio output. If used in an IP system, press the supervised EVAC button either on the Terra-SAP or via the remote EVC-SW02W EVAC switch unit in order to alert a central station able to respond to an incident.

As if this was not enough, the TERRA-SAP also features a mini-USB input for connection to your laptop’s audio out and with built-in AEC the TERRA-SAP can now convert your small conference room to a teleconference room without any extra cost. Simply use Skype for business on your laptop and connect the video out to a screen and let the TERRA-SAP handle the audio.

The TERRACOM family of devices are powered via POE and include a range of IP, POE+ speakers and audio devices including our unique BCM201W/BCM201B boundary microphone which can be used for hands-free intercom, monitor, recording and speech reinforcement applications. The TERRA Manager Graphical User Interface (GUI) software can be operated on a touch screen PC/Laptop, brings it all together by facilitating full control, paging, intercom, recording, streaming, audio routing, device I/O monitoring, and bell scheduling with the greatest ease. The TERRA Manager is customized to each application whether it is a district wide school intercom, campus paging, messaging/BGM distribution on multiple stores, and so on.

**SYSTEM DIAGRAM**

**INTERIOR IP SPEAKERS (POE+)**
- APR30-IP
- P2C60-IP
- AP130-IP

**EXTERIOR IP HORN (POE+)**
- IPSR-1C4GM
- AP130-IP

**RETOFIT-IP**
- Speakers
- Amplifier
- TERRA-EX

**TELCO PAGE**
- Telephone Landline
- TERRA FXO

**TERRA-SAP**
- RAC 5/8
- Source Selector
- Volume Control Remote
- BCM201/BCM201B Boundary Microphone

**AUDIO AND CONTROL IP TERMINALS (POE)**
- TERRA-AP
- TERRA-EX
- TERRA-FXO
- TERRA-EX
- TERRA-FXO
- TERRA-EX
- TERRA-FXO
- PPM 015

**ADMINISTRATION**
- TerraManager
  - Custom GUI/Control Software
  - Dynamic Bell Schedule
  - Door Access Control
  - Message Activator
  - Door Access Control
  - Event Logger
  - Diagnostic Monitoring
  - Quick-Click and user menu for schedule changes.

**EVC-SW02W**
- BCM201B Boundary Microphones
- Microphone
- RAC 5/8
- Source Selector
- Volume Control Remote
- APC-20x2CH Amplifier
- Power Supplies
- Emergency Button
- Monitor Contact I/O
- 3.5mm Jack for Background Music
- TV

**RAC 5/8**
- Source Selector
- Volume Control Remote
- RAC 5/8

**BCM201B**
- Boundary Microphone
**SYSTEM COMPONENTS**

**TERRA-SAP**  
Mini Audio DSP Processor

- 2 XLR microphone inputs – one with phantom power
- Analogue line input from any device (wireless microphone etc.)
- 3 balanced audio inputs
- SIP streaming input
- USB audio from laptop with AEC on input
- USB 2.0 interface for record out or music/pre-recorded message playback with scheduler in the software

- 1 analogue output
- 20W x 2CH (class-D amp) or bridged to 40W x 1CH amplification 8 Ohm load
- SIP streaming output
- 3 control inputs – can also be used for external volume/source select
- 1 control output
- 1 monitored alert button (via SIP)
- 24VDC power input (2.7A)
- Dimensions (W x H x D): 215 x 45 x 130 mm
- Weight: 0.5 kg

**BCM201W**  
Boundary Microphone (White)

**BCM201B**  
Boundary Microphone (Black)

- Capsule type: Electret condenser
- Designed in high definition, omnidirectional microphone capsule
- Connected to the balanced mic input of TERRA-SAP, providing hands-free intercom, recording and speech monitoring applications

**EVC-SW01W**  
Supervised Emergency Button

**EVC-SW02W**  
Supervised Emergency Button (Metal)

**RAC5 / RAC8**  
Remote Control
- 5 / 8 Source Selector
- Level Control

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**BSD Configure**

Diagram showing various audio channels, inputs, and processing stages, including:
- SIP Recorder
- AIC
- Mic In 1, Mic In 2 (microphone inputs)
- Mix
- Mix
- Mic In 3 (microphone inputs)
- Audio Matrix
- Door
- Door Knobs
- PBX
- PBX
- Speaker
- Speaker
- USB Interface
- USB Interface
- PSU
- PSU
- Recorder
- Recorder
- Level Control
- Level Control
- Line Out 1
- Line Out 2
- USB Interface
- USB Interface
ACTIVE IP LOUDSPEAKERS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>APH30-IP</td>
<td>IP Horn Speaker (20W External 24VDC/PoE+)</td>
<td>Lay-in Tile IP Speaker (5W External 24VDC/PoE+)</td>
</tr>
<tr>
<td>APH30-IPM</td>
<td>IP Horn Speaker with Mic (20W External 24VDC/PoE+)</td>
<td>Lay-in Tile 2 Way IP Speaker with Mic (15W External 24VDC/PoE+)</td>
</tr>
<tr>
<td>JD20-IP</td>
<td>Music Cabinet Loudspeaker (20W External 24VDC/PoE+)</td>
<td>Lay-in Tile IP Speaker with Mic (5W External 24VDC/PoE+)</td>
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</tr>
<tr>
<td>PBC6-IP</td>
<td>Open-Back Wall-Mount IP Speaker (6W External 24VDC/PoE+)</td>
<td>4&quot; Pro-Ceiling IP Speaker 2 Way (20W External 24VDC/PoE+)</td>
</tr>
<tr>
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<td>Open-Back Wall-Mount IP Speaker with Mic (6W External 24VDC/PoE+)</td>
<td>6&quot; Pro-Ceiling IP Speaker 2 Way (30W External 24VDC/PoE+)</td>
</tr>
<tr>
<td>LCS8-IP</td>
<td>Twin-Cone IP Speaker (4W External 24VDC/PoE+)</td>
<td>4&quot; Pro-Ceiling IP Speaker 2 Way with Mic (20W External 24VDC/PoE+)</td>
</tr>
<tr>
<td>LCS8-IPM</td>
<td>Twin-Cone IP Speaker with Mic (4W External 24VDC/PoE+)</td>
<td>6&quot; Pro-Ceiling IP Speaker 2 Way with Mic (30W External 24VDC/PoE+)</td>
</tr>
</tbody>
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ATEÏS Europe B.V.
Europe & Africa
Celsiusstraat 1 - 2652 XN Lansingerland
(Rotterdam Region), Netherlands
Tel: +31 (0)10 2088690
info@ateis-europe.com

ATEÏS France
8, rue de l’Europe - ZA de Font Ratel, 38640 Clax, France
Tel: +33 (0)4 76992630
contact@ateis.com

Penton UK Ltd.
UK & Ireland
Unit 2, Teville Industrials, Dominion Way, Worthing
West Sussex, BN14 8NW, United Kingdom
Tel: +44 (0)1903 215315
Fax: +44 (0)1903 215415
sales@pentonuk.co.uk

ATEÏS Far East Corp.
Far-East Asia
2F No.60, Xinghua 2nd Rd. Tanzi,
Taichung, Taiwan
Tel: +868 4 25333840
Fax: +868 4 25333830
sales@ateis-fareast.com

ATEÏS Middle East FZCO.
Middle East & India
LIU No. 11, Dubai Silicon Oasis,
293640 Dubai, United Arab Emirates
Tel: +971 (4) 3262730
Fax: +971 (4) 3262731
info@ateis.ae

ATEÏS Se Europe
Serbia
Sime Lukina Lazića 12-B, 11040 Belgrade
Serbia
Tel: +381 (0)11 40 89 617
info@ateisseturope.com

ATEÏS China
Room 610, No.255 Wubao Road, Minxing
district, Shanghai, China
Tel: +021-54495191/92
Sales@ateis.com.cn

Xavtel Communications RUS Ltd.
Russian Federation, 115280, Moscow
Leninskaya Sloboda str., 26 bl.28,
Business Center “Slobodskoy”, oce#122
Tel/Fax: +7 495 803 3655
info@xavtel.ru.com

ATEÏS Suisse SA
Avenue des Baumettes 9, 1020 Renens VD,
Switzerland
Phone: +41 (0)218812510
Fax: +41 (0)218812509
info@ateis.ch

ATEÏS SE PTE. LTD.
South-East Asia
Blk 5002 Ang Mo Kio Ave 5, #03-018 TECHplace
II. Singapore 569871
Phone: +65 6481 1968
Fax: +65 6481 1960
info@ateis-se.com.sg

Penton Audio USA
USA, Canada & Latin America
21 Sabin Street Pawtucket, RI 02860, USA
Tel: +1 401-727-1600
Fax: +1 401-727-0003
info@penton-usa.com

ATEÏS Se Europe
Serbia
Sime Lukina Lazića 12-B, 11040 Belgrade
Serbia
Tel: +381 (0)11 40 89 617
info@ateisseturope.com