Paging Adapter Hardware Interface

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Paging Adapter
Hardware Interface
- SIP (50 Page ext., 10 Emergency Alert ext. & 10 Ring ext.)
- Multicast Send & Receive
- Scheduler for Automated Tones & Announcements
- 1GB Memory
• The 8301 is used to connect an existing paging amplifier to a UC environment either as a SIP extension or multicast endpoint for voice paging, emergency alerting, night bell / loud ringing, bell scheduling and/or playing music. It provides a hybrid voice paging solution to integrate analog speaker infrastructure and multicast to Algo IP speakers, strobe lights and paging adapters, in addition to multicast supported IP telephones.

• The Line output of the 8301 is connected directly to the dry audio input on an amplifier with an input impedance between 600 Ohm and 10 kOhm.

• For amplifiers connected directly to the dry page port of an existing telephone system, the 8301 will provide a very similar interface providing both dry page audio and dry contact closure to activate the amplifier (if required).

• For amplifiers connected to a FXS port of ATA through a “telephone answering device”, the 8301 will replace the answering device and eliminate the need for a FXS port or ATA. Please note the 8301 does not provide a FXS port interface.
8373 Zone Paging Adapter

- SIP (50 Page ext.)
- Switches up to*:
  - 500W at 70V
  - 180W at 25V
  - 720W at 100V
- Multicast Send & Receive

* Requires hardware release 4 or higher. Contact Algo for lower versions.
Hybrid IP & Analog Infrastructure Integration

Simultaneous Line Level Output to Amplifier

SIP Call

Simultaneous Multicast To Speakers, Strobes & Phones
Paging Amplifier Wiring Diagrams
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out.

To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.
On the 8373 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out.

To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set the PagePal to DL (Dry Loop) mode using the switch in the front.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)".
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to "0dBm 600 ohm (0.775 Vrms)".
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set the switch to the “TEL” position.

Ensure JP1 Phantom Power Jumper is in the OFF position.
Before connecting, power off PCM2000 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle).

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)“.

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

8301 Installation with Bogen TPU-35/60/100/250
On the 8373 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Output from Amplifier (25/70/100V)
Set the horizontal switch to “CONT” and the vertical to “Page Port”.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.

8301 Installation with Bogen UTI1
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.
Set switch 1 to “Line” position.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBv 10k (1.0 Vrms)”. 

8301 Installation with Crown 135MA/160MA
8301 Installation with Crown CDI 1000/2000/4000

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “+4dBu 10k (1.23 Vrms)”. 

Note: Channel 1 or 2 may be used.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. Connect the Line Out pair on the 8301 to the + and – terminals on one of the Inter-M inputs. Move the input selection switch to the “Line” position.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.

8301 Installation with JW Davis D-250 AL
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set Input 1 Selector to “Tel” and “VOX On” Position.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set the highlighted switch to the TEL position.
Set DIP switch 8 to the OFF position and be sure to turn off the power before performing this step.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to "0dBm 600 ohm (0.775 Vrms)".

The impedance is set from factory to 10 kΩ. To switch to 600 Ω, change the position of the unit's internal jumper switch JP204 as per diagram below.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBV 10k (0.316 Vrms)”. 

Set the DIP switches as per below:

**Function Switches A (upper terminal)**
- Switch 1 – On
- Switch 4 – On

**Function Switches B (lower terminal)**
- DIP Switch 2 – Off
8301 Installation with TOA 500 Series

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.

Set the Phantom switch above the input to the off position.

Recommended: Algo 2504 Output XLR-Mini Female to XLR Male adapter cable
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBV 10k (1.0 Vrms)”. 

Set the Input Level DIP switch to 0dB.

*Alternatively, use the TOA L-01 Series Line Matching Input plug-in module to connect the 8301 Line Out.
8301 Installation with TOA 900 Series


On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.

Set the Battery Feed switch off before connecting the 8301.
The 8301 Line Out (terminal 3 and 4) connects to either the Tip and J3) using an RJ11 modular connector or the Page T and Page R inputs on the Valcom V-2001A via a 2-wire connection to the terminal strip.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.

SW1 Off for Page Port Access
On the Valcom V2003a switch SW3, set 4, 7 and 10 to the off position (up position). Also set SW2 to off position.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).
Set the Battery Feed switch to the off position for Page Port access on the V2006a.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)".

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-20dBm 600 ohm (0.077 Vrms)”. Ensure that only DIP Switches 1 and 8 are ON. If the device is not working try turning DIP Switch 1 OFF.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.  

Note there will be no talk back from the Valcom speakers.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).

Set the Battery Feed switch (SW4) to off for Page Port access.

Note there will be no talkback via the Valcom V-2924A.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 
Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8301.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to "0dBm 600 ohm (0.775 Vrms)".
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.

If there are speakers connected to both channels, then an 8301 per channel will be required. One 8301 can be SIP registered and configured to Multicast to the second for zone paging including All Call.
Please contact us if there are additional amplifier models you wish to see included in this guide.

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