

## Ai-Logix SmartWORKS Common Features

A core set of powerful DSP algorithms are the foundation of all SmartWORKS boards. The following are features common to all SmartWORKS products.

- **ACTIVITY DETECTION** – The Activity Detector is capable of monitoring the line for activity and silence. It features programmable parameters such as activity threshold, silence threshold, minimum silence, and minimum activity duration.
- **ALERT TONE** – Alert tone generation is supported for call logging applications. The generated alert tone is also mixed with recorded data to minimize distortion to the recording. (Passive tap cards are unable to play the sound out onto the line).
- **AUTOMATIC GAIN CONTROL** – Each board features an optional automatic gain control (AGC) followed by a gain stage. AGC handles a wide, dynamic range that is typically encountered when a voice logger is connected close to a PBX.
- **AUTOMATIC VOLUME CONTROL** – Each board has the capability to take the output of a channel mixer, apply automatic volume control (AVC) to it, and adjust the output by programming volume control.
- **CALLER ID** – All SmartWORKS boards support Bell 202 and V.23 standards.
- **CALL PROGRESS MONITORING** – Ai-Logix' Call Progress Monitoring (CPM) tracks the progress of outbound calls by identifying possible call results (or call states). Ai-Logix' CPM was designed around a signal processing service able to detect and recognize of a wide range of Call Progress Tones (CPT) - such as dial tone, busy signal, or ring back.
- **DTMF/MF TONE DETECTION** – Each input has its own set of DTMF, MF, and activity detectors (Both MF R1 and R2 tones are detected). The following DTMF digits can be detected: 0 - 9, \*, #, A, B, C, D.
- **ECHO CANCELLATION** – Each board is capable of providing adaptive echo cancellation, however it is reserved for terminate products.
- **ENCODERS / DECODERS** – SmartWORKS offers a wide range of voice encoders and decoders including G.723, G.729, G.711 and MS GSM.
- **FULL-DUPLEX CHANNELS** – Two voice resources for one channel.
- **HIGH DENSITY RECORDING** – Support for up to 512 channels per chassis
- **LIVE MONITORING** – All Ai-Logix boards support live monitoring. All SmartWORKS boards are equipped with a 3-pin audio jack that can be used to listen to audio in real-time. The audio jack is designed for use with an Ai-Logix 3.5mm to 3-pin connector audio cable, which facilitates a microphone/headset.
- **MULTI-VOLTAGE TRIGGER** - Voltage threshold, voltage detection and polarity reversal can all be managed through the SmartWORKS API.
- **MEDIA STREAMING** – Support for Windows Media Player (WMP). Remote live monitoring through media streaming on WMP.
- **ONLINE VOLTAGE READING** – Voltage values can be read using the SmartWORKS API. There is no need to use a voltage meter.
- **STEREO RECORDING** – Record far and near end of conversations in separate files.
- **TDM CONNECTIONS** – All SmartWORKS boards can be configured to connect channel input or DSP output to the global CT bus, MVIP or H.100.
- **tone GENERATOR** – Each logical channel has a programmable tone generator that can be used to play tones to the TDM switch. User applications can generate standard DTMF tones of programmable amplitude and duration.
- **UNIVERSAL PCI** - Support for 32-bit and 64-bit PCI bus.
- **VOICE BUFFER** – Continuous recording with 5 second voice buffer.

---

### India Distributor:

#### Sunshine Telesoft (P) Limited.

305/6, Apeejay House, 130 Mumbai Samachar Marg, Fort, Mumbai - 400023. India.  
Tel: 5573 0699 / 2284 3900. Fax: +91 22 2204 9381. Email: sudhir@s-corpindia.com