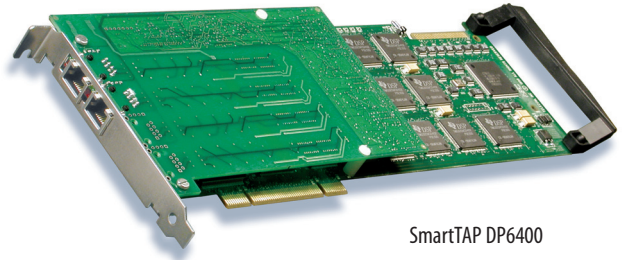


SMARTTAP DP Series

Features

- Software Switchable between T1 and E1
- Auto-configures for all ISDN Variants
- High Density (Single/Dual span)
- On-board DSP providing Tone Detection & Voice Processing of up to 60 full-duplex channels
- Passive Connection for non-intrusive monitoring and live monitoring
- Caller ID / FSK /DTMF/MF
- Full-Time/On-Demand Recording/Event Driven record
- Uses SmartWORKS API (Common to all SmartWORKS products)
- Expansive Speech CODEC support (20+)
- Automatic Gain and Volume Control (AGC/AVC)
- Advanced Streaming to prevent data loss regardless of system resource demand
- Available for Windows NT 4.0, Windows 2000, Windows XP, Linux

T1/E1 Passive Tap Card

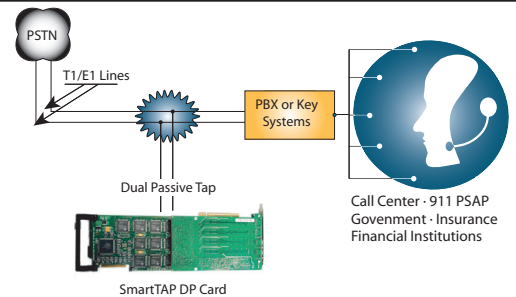
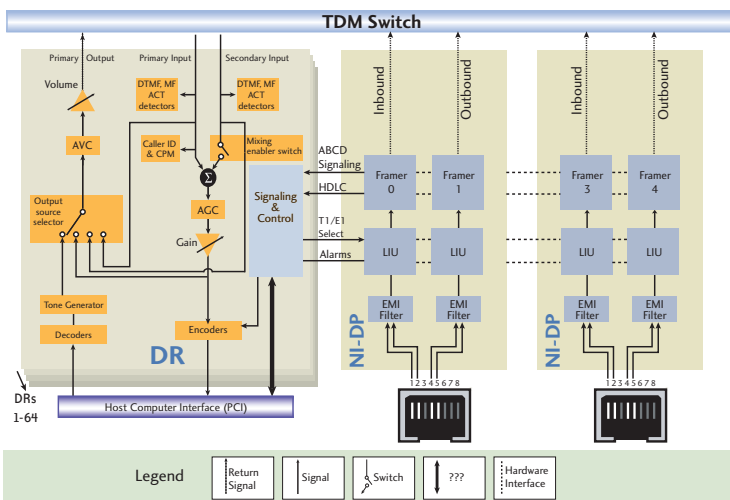


SmartTAP DP6400

Overview

Ai-Logix's high impedance (Z) SmartTAP family of PCI cards provides advanced features for building digital recording applications. The SmartTAP DP passively taps a T1 or E1 trunk in parallel, providing audio data without interrupting service.

The Smart TAP DP occupies a single PCI slot and up to 4 cards can be configured in a single system. The card uses high impedance inputs, each capable of monitoring inbound and outbound traffic. The High impedance receivers in each port monitor both downstream and upstream portions of a conversation independently. The monitored T1 or E1 trunk remains unaffected in the event that a SmartTAP DP-equipped PC shuts down. Dedicated on-board DSPs allow for simultaneous recordings of up to 60 channels per card or 240 channels per system.



DP cards are connected between a T1/E1 trunk and the PBX where they passively monitor voice and data from both sides.

The diagram at left shows the DP's Logical Card Model, which shows how the DP functions with the SmartWORKS API.

Product	Part Number	Available
DP3200 24/30 channel card:	910-0308-001	Now
DP6400 48/60 channel card:	910-0304-001	Now

Product Specifications

HARDWARE SYSTEM REQUIREMENTS

Pentium II or equivalent 400 MHz or better
 ATX PCI motherboard or passive backplane with 3.3V ATX power supply
 PCI 2.2 bus

OPERATING SYSTEMS

Windows NT® 4.0 · Windows 2000 · Windows XP · Linux*

TECHNICAL SPECIFICATIONS

Max boards per system: DP3200=4 boards (T1 96 ports/E1 120 ports)
 DP6400=4 boards (T1 192 ports/E1 240 ports)
 Resource Sharing Bus: MVIP or H.100
 Boards Status: 2 LEDs per Trunk
 Clocking: Master/Slave

ENVIRONMENTAL CONDITIONS

Operating Temperature: 0C to +50C
 Storage Temperature: -20C to +85C
 Humidity: 8% to 80% non-condensing
 Storage humidity: 8% to 80% non-condensing

PHYSICAL CHARACTERISTICS

Form Factor: Full-size PCI card

HOST INTERFACE

Bus Compatibility: Complies with PCISIG Bus Specifications, Rev. 2.2
 Bus Speed: 33 MHz
 Bus Mode: 32 bit bus master/target

TELEPHONY INTERFACE

Trunk type: T1/E1
 Trunk Interface: Digital High Impedance (Z)
 AC Impedance: 1k Ohms

DIGITAL TRUNK INTERFACE

Receive clock rate: 1.544 MHz +/-200ppm (2.048 +/-175ppm)
 Input level: 3.2 V down to 0.45V (LBO 0 dB to -22 dB)
 Input impedance: 1000 Ohm +/- 5%
 Maximum tap length: 30 m (100 feet) of CAT 3 cable
 Framing: SF (D3/D4), ESF, CRC-4
 Line Coding: AMI, B8ZS, HDB3
 Clock and data recovery: Complies with AT&T TR62411 and Bellcore TA-TSY-000170

Connectors
 Telephony bus connector: Two RJ-48C connectors
 MVIP : 40 pin .025 sq. pin / Dual row
 H.100 : 68 pin fine pitch card edge connector

Loss of Signal Detection
 Alarm Detection and Integration
 Binary Sequence Detector
 Per ITU-T G.775 and ANSI T1.231
 Red, Yellow and AIS, per ANSI T1.231
 Per ITU-T O.151

ROBBED BIT T1

Signaling Mechanism: AB bits and MF/DTMF digits reported per channel.
 Inbound and outbound signaling bits and digits are reported separately.

ISDN PROTOCOLS*

4ESS/5ESS, DMS-100, ETS300 (Euro ISDN), NI-2, Q.SIG, ins1500, Austel TS013 & TS014

MF R2 SIGNALING · DTMF CAS SIGNALING

MF R2 Digits: All 15 digits, forward and reverse per Q.441
 DTMF Digits: All 16 digits
 Signaling Mechanism Supported: ABCD bits and DTMF digits reported per channel.
 Dynamic range for detection: -25 to 0 dBm per frequency
 Acceptable twist: 10 dB
 Acceptable frequency variation: 1%

POWER REQUIREMENTS

+3.3 VDC: 2.5 Amp
 +5 VDC: 5 mA
 -12 VDC: Not Required
 +12 VDC: 20 mA

TRIGGER CONDITIONS

Event Driven: Caller ID, Min/Max silence · Min/Max activity

AUDIO SIGNAL

Receive range: -68 dBm to + 3 dBm
 Input gain control: +24 to -64 dB
 Silence Detection: Programmable from API
 Transmit volume control: +24 to -64 dB
 Automatic Gain Control (AGC): Programmable from API
 Automatic Volume Control (AVC): Programmable from API
 Activity Detection: Programmable from API
 Frequency Response: 300 - 3400 Hz (+/- 3dB)

AUDIO DIGITIZING (ENCODING & DECODING)

13 Kb/s: GSM 6.10, Microsoft GSM
 16 Kb/s: G.726
 24 Kb/s: G.726, OKI
 32 Kb/s: G.726, OKI
 40 Kb/s: G.726
 64 Kb/s: μ -law or A-law per G.711, 8 bit linear PCM
 128 Kb/s: 16 bit linear PCM
 Wave file formats: Microsoft GSM, 16-bit PCM
 Digitization selection: Programmable per channel, independent for encode and decode

DTMF TONE DETECTION

DTMF digits: 0 - 9, *, #, A, B, C, D
 Dynamic range: -38 dBm to 0 dBm
 Minimum tone detection: 40 ms
 Interdigit timing: 40 ms min.
 Acceptable twist: Per LSSGR sec. 6, 8 dB forward, 4 dB reverse
 Frequency variation: Accept all +/- 1.5%, reject all +/-2.5%
 Noise tolerance: Per LSSGR sec. 6
 Talk off: Bellcore TR-TSY-000762

SAFETY AND CERTIFICATIONS

Telecom: CFR Part 68 · DOC
 Emissions: FCC Part 15 class A · EN 55022
 Immunity: EN 55024
 Safety: EN 60950
 MTBF: 536,000 hours per Bellcore Method TR332

WARRANTY:

3 years standard

*Call For availability



Ai-Logix, Inc.

A member of the Ai-Technology Group

Ai-Logix, Inc. · www.ai-logix.com · Corporate Park III, 580 Howard Ave · Somerset, NJ · 08873 · T: 732-469-0880 · F: 732-469-2298

Charlotte, N.C.
 Tel (704) 365-1100

Dallas, TX.
 Tel (972) 818-8990

Washington, DC
 Tel (301) 622-5330

Europe
 Geerweg 57
 2461 TT TER AAR
 The Netherlands
 Tel 31+172+425133

China
 Beijing, PRC
 Tel 86+10+82512288
 or
 86+10+82512299