

## Sangoma A101 PRI ISDN Card



Product Name: Sangoma A101 PRI ISDN Card

Manufacturer: Sangoma

Model Number: A101

Please Note: This is a PCI Card. Please make sure your motherboard/server is compatible with this product. View [PCI vs PCI-Express example](#).

### Sangoma A101 PRI ISDN Card

Sangoma A101 (AFT card with one channelised T1 port)

AFT card with one T1/E1 or fractional T1/E1 port, supporting multiple DS0 channels of HDLC or non HDLC data. Used to support WANPIPE®; in multichannel hub configurations, and as T1 voice gateways for PBX systems.

### Sangoma A101 Key Features

- Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes:

- T1/E1 and fractional T1/E1, single channel HDLC per line

- HDLC data

- Power: 520mA at +5v

- PCI 32 bit (5v and 64 bit (3.3v) compatible).

- Temperature range: 0 - 45C.

The A101 is Sangoma's next generation hardware designed for optimum support of data and voice over T1 and E1.

### Operational Modes

Data only:

- T1/E1 and fractional T1/E1, single channel HDLC per line.

- Can be used as a hub for sub-DS1 remotes. The A101 and A102 can support any configuration of up to 62 DS0s carrying Frame Relay, PPP or HDLC data.

- Raw bitstream interfaces can be used to support arbitrary non standard line protocols such as non-byte aligned monosynch or bisynch.

Voice modes:

- Supports Robbed Bit Channel Associated Signalling (CAS) and ISDN PRI.

- Block mode raw bit-stream interface for integration with the Asterisk Open Source PBX/IVR platform.

- Channelised mode supporting individual DMA into voice timeslots plus onboard HDLC support of PRI channel for soft PBX implementations that can use these features.

Mixed Voice/Data mode:

- Combination of router/PBX functions in one server - Asterisk as an option.

- Both 8 bit (64kbps per channel) and 7 bit (56kbps per channel) board-level HDLC support.

- WAN data connection is supported by Sangoma's standard WANPIPE®; routing stack providing certified Frame Relay, PPP, HDLC and

### Sangoma A101 - Technical Specifications

#### General Features

- Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes:

- T1/E1 and fractional T1/E1, single channel HDLC per line

## Sangoma A101 PRI ISDN Card

- 1/2 HDLC data
- 1/2 Power: 520mA at +5v
- 1/2 PCI 32 bit (5v and 64 bit (3.3v) compatible.
- 1/2 Temperature range: 0 - 45C.
- 1/2 All set-up and configuration is in software or by machine BIOS.
- 1/2 DSU/CSU set up entirely in software.
- 1/2 Line decoding: HDB3, AMI, B8ZS.
- 1/2 Framing: CRC4, non-CRC4, ESF, D4T1/E1.
- 1/2 Clocking mode: Normal , Master.
- 1/2 Software controlled DSU/CSU test modes.
- 1/2 Remote monitoring of card and CSU/DSU operation.
- 1/2 Dimensions: 2U Form factor: 120mm x 55 mm.
- 1/2 T1/E1 Status alarms
  - 1/2 ALOSV: Loss of Signal alarm
  - 1/2 LOS: Receive Loss of Signal
  - 1/2 ALTLOS: Alternate loss of Signal Status
  - 1/2 OOF: Out of Frame
  - 1/2 RED: Telco Red Alarm condition
  - 1/2 AIS: Alarm Indication Signal
  - 1/2 OOSMFV: Loss of Signaling Multiframe
  - 1/2 OOCMFV: Loss of CRC Multiframe
  - 1/2 OOOOFV: Out of Off-Line Frame
  - 1/2 RAIV: Receive Loss of Signal
  - 1/2 YEL: Receive Telco Yellow Alarm

### Line protocols

- 1/2 Frame Relay, X.25, HDLC, PPP, SS7, Transparent bit-stream, BSC.

### Operating systems

- 1/2 Linux (all versions, releases and distributions from 1.0 up), FreeBSD, Open BSD.

### Higher level protocols

- 1/2 Asterisk Open PBX/IVR, IP/IPX over Frame Relay/ PPP/ HDLC/ X.25, X.25 over Frame Relay (Annex G), BSC over X.25 (DMT and TCOP), SNA over X.25, PPPoE, PPPoA, IP over ATM.

### Warranty

- 1/2 Three years parts and labour.

### Certification

- 1/2 FCC Part 15 Class A, FCC Part 68, CE., Declaration of Conformity

### Diagnostic Tools

- 1/2 WANPIPEMON, SNMP, System logs.

### Production quality

- 1/2 ISO 9002
- 1/2 RJ 45 Pin-out

## Sangoma A101 PRI ISDN Card

**Price: £416.30**

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