

## 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:

 $i_{\xi}i_{2}^{\prime\prime}$  T1/E1 and fractional T1/E1, single channel HDLC per line.  $i_{\xi}i_{2}^{\prime\prime}$  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.  $i_{\xi}i_{2}^{\prime\prime}$  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.

i¿1/2 Channelised mode supporting individual DMA into voice timeslots plus onboard HDLC support of PRI channel for soft PBX implementations that can use these features.

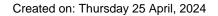
Mixed Voice/Data mode:

i¿½ Combination of router/PBX functions in one server - Asterisk as an option.
 i¿½ Both 8 bit (64kbps per channel) and 7 bit (56kbps per channel) board-level HDLC support.
 i¿½ 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

i¿½ Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes:

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





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

 $i_{2}i_{2}$  YEL: Receive Telco Yellow Alarm

Line protocols

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

Operating systems

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

#### Higher level protocols

� 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

ï¿1/2 Three years parts and labour.

Certification

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

Diagnostic Tools

ï¿1/2 WANPIPEMON, SNMP, System logs.

Production quality

ï¿⅓ ISO 9002 ï¿⅓ RJ 45 Pin-out



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### Price: £416.30