

# Sangoma Telephony Card

## A500 2-24 Port Scalable S/T BRI

**Sangoma built its business by designing hardware that simply works, the first time. We have taken the time to ensure our BRI solution delivers.**

The Sangoma A500 S/T BRI interface card delivers superior audio quality and scalability. Expand from two to twenty-four ports of BRI with optional telco-grade hardware echo cancellation.

A single PCI or PCI Express slot hosts the connection for up to 24 ports and ensures common synchronous clocking for all channels with no signaling issues. The card is 100% software configurable.

Finally, a BRI card that upholds Sangoma's high standards of quality in engineering and untiring product support.



6-port S/T BRI with PCI interface

### Technical Specifications

- From 2 to 24 ports are supported. Mix TE and NT modes, as required. Changing modes requires no jumpers—simply invert the colour-coded module
- Support for Asterisk®, FreeSwitch™, and Yate as well as other Open Source and proprietary PBX, Switch, IVR, and VoIP gateway applications
- Single synchronous PCI and PCI Express interface for all 24 BRI interfaces
- Six ports per Remora™ card
- Dimensions: 2U Form factor: 187 mm x 55 mm for use in restricted chassis; includes high quality, tested 2 m 8-pin **RJ45 port splitter cables** and short **2U compatible mounting clips** for installation in 2U rackmount servers
- 32 bit bus master DMA data exchanges across PCI interface at 132 Mbytes/sec for minimum host processor intervention
- Autosense compatibility with 5 V and 3.3 V PCI busses
- Fully PCI 2.2 and PCI Express compliant, compatible with all commercially available motherboards, proper sharing of PCI interrupts
- Intelligent hardware: Downloadable FPGA programming with multiple operating modes. Add new features related to voice and/or data when they become available
- Power: 800 mA peak, operational 300 mA max at +3.3 V or 5 V
- Temperature range: 0 – 50 °C
- Optimized DMA stream and hardware-level HDLC handling unload the host CPU
- Raw bitstream interfaces can be used to support arbitrary non-standard line protocols, such as non-byte aligned monosynch or bisynch
- WANPIPE® supports certified, field tested and reliable Frame Relay, PPP, HDLC and X.25

## Operating Systems

Linux (all versions, releases and distributions from 1.0 up)

## Warranty

Lifetime warranty on parts and labour. Plus a 30-day no questions asked return policy.

## Certification

FCC Part 15 Class A, FCC Part 68, CE, TBR3

## Diagnostic Tools

WANPIPEMON, SNMP, system logs

## Production Quality

ISO 9002

## Architecture

The A500 consists of a Remora™ BRI daughterboard mounted on the AFT PCI card. The Remora™ BRI card has three sockets, each of which can accept an S/T BRI module.

One S/T BRI module has two S/T four wire interfaces, which support TE or NT modes of operation. Changing modes requires no jumpers— simply invert the module.

Up to three additional Remora™ daughterboards can be mounted in empty slot positions beside the A500 assembly. These are connected to the A500 by a special backplane bus connector.

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