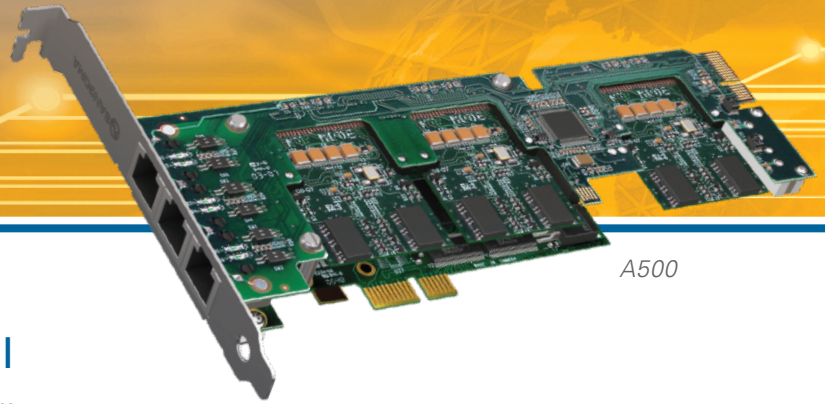# Digital BRI Telephony Cards

A500

A500 2 – 24 Port Scalable S/T BRI

Our A500 BRI card is scalable from 2-24 ports in a 2U form factory, per interface slot on the server. Remora daughter boards to expand up to 24 ports

Sangoma telephony cards are compatible with virtually all Linux and Windows environments as well as standard servers. Included in thousands of worldwide projects, trust Sangoma analog cards for dependability, flexibility and interoperability. With lifetime warranty, you can't go wrong!

Use Cases

» Channel banks
» Small Office Home Office (SOHO) applications
» SMB applications
» BRI trunks

The open design architecture, along with our TDM APIs, allows for seamless integration for all your voice, data and other proprietary applications.

Sangoma raised the bar in TDM voice communications with on-board, telco-grade, hardware echo canceller DSPs available on all voice cards and the most optimized, scalable, cross-platform device drivers available. The unique tuning option delivers up to 70% system performance increase, decreasing CPU usage, and allowing you to increase port density per server.

"Sangoma cards are guaranteed to work with FreePBX and PBXact systems with full plug&play support from the web GUI."

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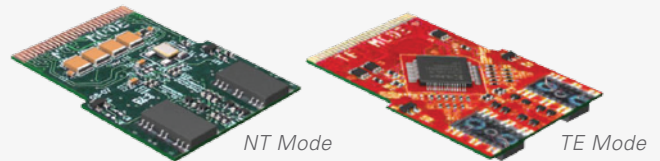
Quick Facts

» 2-24 Ports of BRI (Scalable)
» Optional Telco Grade Echo Cancellation
» Onboard Diagnostic & Debugging Toolkit
» Compatible with Most Motherboard, Linux & Windows Operating Systems
» Plug&Play with PBXact & FreePBX
» Lifetime Warranty on Parts & Labor

MODULAR DESIGN

NT & TE MODES

With its modular design, NT or TE modes are selected by inserting the color-coded BRI module. Simply invert the module to select the mode! The BRI module supports 2 S/T four wire interfaces.

NT Mode   *TE Mode*

NT Mode
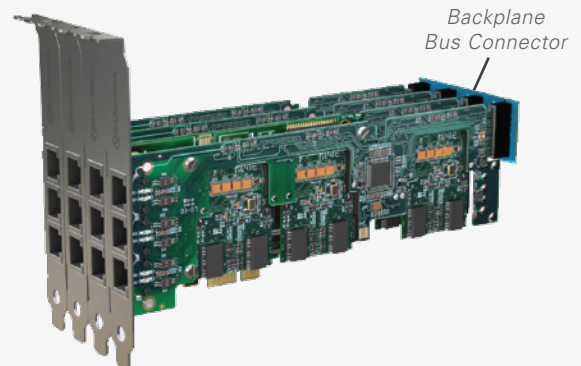
» Used when creating the source for BRI lines

TE Mode

» Used when connecting the port(s) to BRI telco

Remora Daughter Boards
Make the Best Use of Available Chassis Space

The base board supports up to 3 BRI modules, or 6 BRI lines. Up to 3 additional Remora daughter boards can be mounted on the base card, using a backplane bus connector to expand capacity.

Backplane Bus Connector

It is ideal to put the Remora(s) to the right of the main card, so that the main card always contains port 1. However, if space is a concern, either side is appropriate.

The lowest number port on the backplane corresponds to port number 1 in the stack. (e.g., JP6 on a 4-connector backplane.)

Digital BRI Telephony Cards

TECHNICAL SPECIFICATIONS

Interfaces

Telephony Interfaces:

» A500
  › 2-24 ports of BRI (Scalable)
  › Mix TE and NT modes, as required

PCI Interfaces:

» PCI or PCI Express
» Fully PCI 2.2 compliant, compatible with all commercially available motherboards, and shares PCI interrupts
» Autosense compatibility with 5 V and 3.3 V PCI busses
» Single synchronous PCI interface for all ports
» 32 bit bus master DMA data exchanges across PCI interface at 132 Mbytes/sec for minimum host processor intervention

Features

PBX Support:

» FreePBX, PBXact, Asterisk, FreeSWITCH...etc.

Operating System Support:

» Windows 2003, Windows XP, Windows Server 2008, Windows Vista, Windows 7
» Linux (All versions, releases and distributions from 1.0 up)

Server and Motherboard Support:

» Compatible with most commercially available servers and motherboards

DSP Echo Canceller *Optional:

» G.168-2002 echo cancellation in the hardware
» 1024 taps/128 ms tail per channel on all channel densities
» DTMF decoding and tone recognition
» Voice quality enhancement: music protection, acoustic echo control and adaptive noise reduction
» No CPU load as a result of echo cancellation
» Does not increase the physical size of the card, and no additional slot is required

Diagnostic Tools:

» WANPIPEMON
» SNMP
» System logs

Wiring Connections *Cables Included:

» A500
  › One S/T BRI module has two S/T four wire interfaces
  › 2m 8-pin RJ45 port splitter cables included

Hardware

Certification:

» A500
  › FCC Part 15 Class A
  › FCC Part 68
  › CE
  › TBR3

Environmental:

» Temperature range: 0 – 50 °C

Dimensions:

» A500
  › 2U form factor
  › 187mm x 55mm for use in restricted chassis

Mounting:

» Includes both standard and short half-height compatible mounting clips for installation in 2U rack-mount servers
» Compatible with all commercially available motherboards

Power Supply:

» A500
  › 800 mA peak, operational 300 mA max at +3.3 V or 5 V

SANGOMA TECHNOLOGIES
sangoma.com