

Sangoma Telephony Card

A400 2-24 Port Scalable FXO/FXS

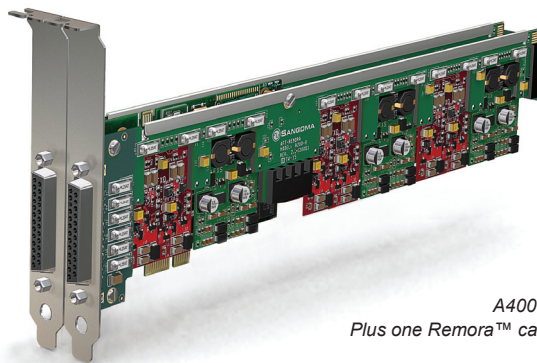
The A400 and Remora system expands up to 24 ports.

Superior audio quality in a card that is expandable from two to twenty-four ports in a 2U form factor, the Sangoma A400 FXO/FXS card is a high-density version of the popular A200 model.

For optimum echo-cancelled voice quality and enhancement, choose the A400D Model with Octasic® DSP Daughterboard Hardware Echo Canceller. One DSP echo canceller on the A400D Base Card will support Telco-grade hardware echo cancellation on all channels, up to the card's maximum configuration in 24 ports with no additional CPU load.

To reach this configuration, simply add additional Remora™ cards to any base card in the A400 Series. A single PCI or PCI Express slot hosts the connection and ensures common synchronous clocking for all channels.

Like all the cards in the award-winning Sangoma AFT Series Product Line, the A400 and Remora™ system's architecture is shared with Sangoma's A101, A102, A104, A108 and A200 cards, ensuring common 3.3 V or 5 V, high performance, universal PCI or PCI Express compatibility, and crash-proof



A400 Base Board
Plus one Remora™ card: 24 Ports.

field upgradable firmware to take advantage of enhancements, as they become available.

Sangoma cards guarantee error-free faxing and click-free audio on analog-digital links.*

Technical Specifications

- From 2 to 24 ports supported, mixing FXO and FXS interfaces, as required.
- Support for Asterisk®, FreeSwitch™, and Yate as well as other Open Source and proprietary PBX, Switch, IVR, and VoIP gateway applications.
- Single synchronous PCI interface for all 24 FXO/FXS ports.
- Connects to punch block using the **included standard 12-line colour coded telephone cable**. Or choose the optional Amphenol-Y cable, shown below that connects up to 24 lines to a telephone patch panel. (Sold Separately.)
- Dimensions: 2U Form factor: 290 mm x 55 mm for use in 2U chassis.
- Includes both standard and short 2U compatible mounting clips for installation in 2U rack-mount 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 compliant, compatible with all commercially available motherboards, and proper sharing of PCI interrupts.
- Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes. Field upgradable so that new features can be added when they become available.
- Power: 800 mA peak, operational 300 mA max at +3.3 V or 5 V.
- Temperature range: 0 – 50 °C.



Optional Amphenol-Y Cable.

Because it must work!



*Hardware echo cancellation option required.

Get the Fax on Sangoma Hardware

- With Sangoma, there is no need for a separate analog line to run your fax machine.
- Using T1/E1 passthrough with Sangoma analog cards, there are no clock slips, buffer overruns, or transmit underruns that cause missed lines, blank sheets, and missed pages when faxing.
- Sangoma A200 and A400 cards synchronize perfectly with digital T1/E1 cards and the PSTN atomic clock for error-free fax and modem passthrough and superior voice quality over T1 and E1 lines.*

Optional: DSP Echo Canceller Daughterboard on the A400D

- G.168-2002 echo cancellation in hardware.
- 1024 taps/128 ms tail per channel on all channel densities.
- DTMF decoding and tone recognition.
- Voice quality enhancement: Octasic® 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.

Operating Systems

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

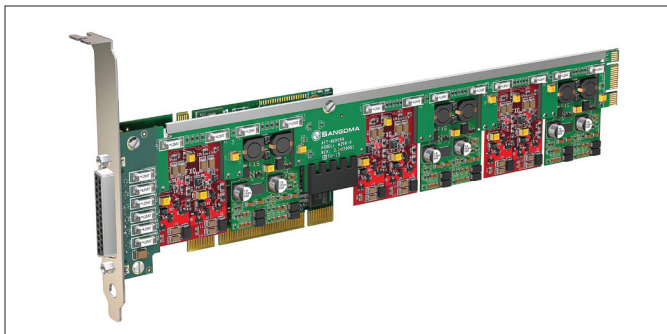
Diagnostic Tools

WANPIPEMON, SNMP, System logs.

Certification

FCC Part 15 Class A, FCC Part 68, and EN 55022 Class A. Technical certifications in Russia and Malaysia.

Architecture



The A400 consists of a Remora™ daughterboard mounted on the AFT PCI card. The Remora™ card has six sockets, each of which can accept a FXO-2 or FXS-2 module. Each FXO-2 or FXS-2 module supports two FXO or FXS lines, respectively.

Up to one additional Remora™ daughterboard can be mounted in empty slot positions beside the A400 assembly and connected to the A400 Base Card by a backplane bus connector.

Each 12-port A400 Remora™ card has a robust DB25 connection to an included standard 12-line, colour-coded telephone cable that is ready for hardwiring into a punch block at the PSTN connection.

Warranty

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

Production Quality

ISO 9002

Contact Information

For more information, call toll free in North America **1.800.388.2475**, direct at **+ 1 905 474 1990** or email:

sales@sangoma.com

www.sangoma.com