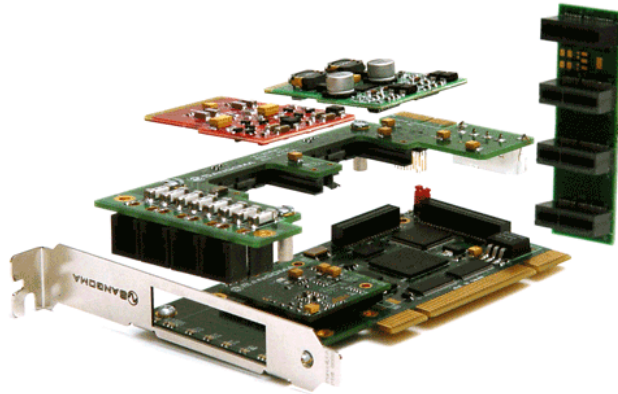


A200/REMORA FXO/FXS Analog Telephony support System



The A200 and REMORA system together comprise the FXO/FXS version of Sangoma's range of Advanced, Flexible Telecommunications (AFT) hardware designed for optimum support of analog voice traffic.

The A200 and REMORA cards support any combination of FXO and/or FXS ports up to 24. A single PCI slot host connection for all ports ensures

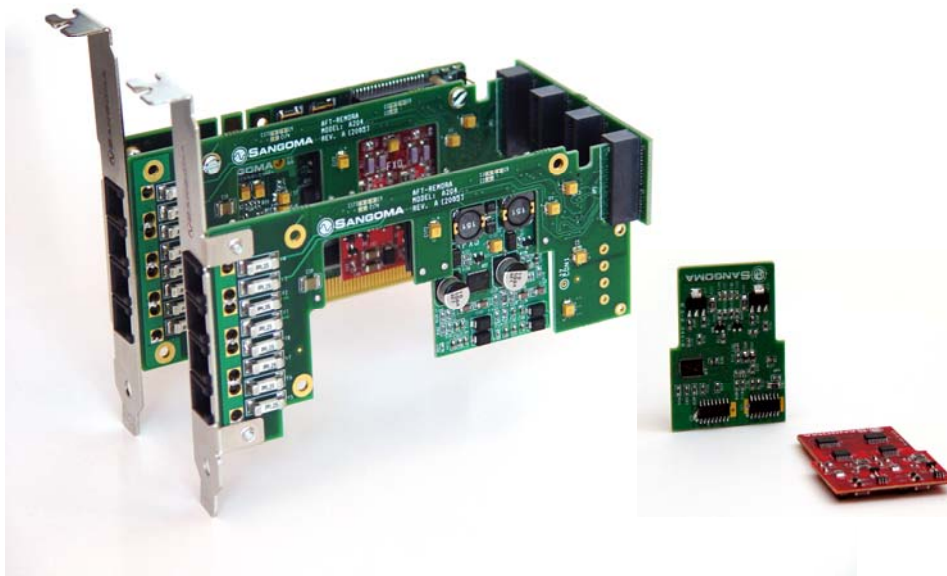
common synchronous clocking for all channels. The base AFT architecture is shared with Sangoma's A101, A200 and A104 cards ensuring common 3.3v/5v, high performance PCI compatibility.

Like all the Sangoma AFT Series, the **A200** and **REMORA** system is field upgradeable to take advantage of the firmware improvements as they become available. Also, the A200 also supports Sangoma's echo cancellation and voice enhancement DSP daughterboard so that hardware voice enhancement is available for analog as well as TDM voice.

Architecture

The **A200** consists of a **REMORA** daughterboard mounted on the **AFT PCI card**. The **REMORA** card has two sockets each which can accept an **FXO-2** or **FXS-2** module. Each **FXO-2** or **FXS-2** module supports two FXO or FXS lines respectively.

Up to four additional **REMORA** daughterboards can be mounted in empty slot positions beside the **A200** assembly, connected to the **A200** by a backplane bus connector.



Technical Specifications

- From 2 to 24 ports supported, mixing FXO and FXS interfaces as required.
- Support for the **Asterisk**[™], **OPAL**[™] PBX/IVR projects, as well as other Open Source and proprietary PBX/Switch/IVR/VoIP gateway applications.
- Single synchronous PCI interface for all 16 FXO/FXS ports.
- Four RJ11 ports per **REMORA** card.
- Dimensions: 2U Form factor: 120mm x 55 mm for use in restricted chassis.
- Short 2U compatible mounting clips available for installation in 2U rackmount servers.
- 32 bit bus master DMA data exchanges across PCI interface at 132Mbytes/sec for minimum host processor intervention.
- Autosense compatibility with 5v and 3.3v PCI busses.
- Fully PCI 2.2 compliant, compatible with all commercially available motherboards, proper interrupts sharing.
- Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes. Field upgradeable so that new features related to voice and/or data can be added when they become available.
- Power: 800mA peak, operational 300mA max at +3.3v or 5v.
- Temperature range: 0 – 50C.

- **Optional DSP daughterboard on the A200d**
 - G.168-2002 echo cancellation in hardware
 - 1024 taps/128ms 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.



Wiring Connections

The A200 and Remora cards incorporate four, 4 pin RJ11 narrow jacks such as used in telephone handsets. Each A200/Remora is shipped with four 2M cables terminating in a narrow RJ11/4 plug at one end and a telephone-standard RJ11/6 plug at the other.

For those who need to hard wire the A200 system, Sangoma has available a kit consisting of 24 RJ11/4 plugs and a crimping tool.

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