# Sangoma A200 FXO FXS Analogue Card PCI Express (A200 BRME)

Product Name: Sangoma A200 FXO FXS Analogue Card PCI Express (A200 BRME)
Manufacturer: -
Model Number: A200BRME

Please Note: This product has been discontinued. Please see the Digium Asterisk Cards range for an alternative.

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Please Note: This is a PCI Express Card. Please make sure your motherboard/server is compatible with this product.
View PCI vs PCI-Express example

PCI Type: PCI Express
Sangoma's A200 4 port FXO/FXS card delivers superior audio qualities and is expandable to 24 ports in a 2U form factor, with optional carrier-grade echo cancellation.Sangoma A200 Key Features

ï¿½ From 2 to 24 ports supported, mixing FXO and FXS interfaces as required.
ï¿½ Support for the Asterisk, Yate, FreeSwitch, OPAL, PBX/IVR projects, as well as other Open Source and proprietary PBX/Switch/IVR/VoIP gateway applications.
ï¿½ Single synchronous PCI interface for all 24 FXO/FXS ports.

As you need them, additional REMORA cards can be added to the base four port A200 card. A single PCI slot hosts connection for up to 24 ports and ensures common synchronous clocking for all channels.
The A200 AFT architecture is shared with Sangoma's A101, A102, A104 and A108 cards ensuring common 3.3v/5v, high performance and universal PCI compatibility.
Like all the Sangoma AFT Series, the A200 and REMORA system has field upgradeable firmware to take advantage of enhancements as they become available. Optionally, the A200 supports Sangoma's echo cancellation and voice enhancement DSP daughterboard for carrier grade echo cancellation and voice enhancement.
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 five additional REMORA daughterboards can be mounted in empty slot positions beside the A200 assembly, connected to the A200 by a backplane bus connector.
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 provides a kit of 12 RJ11/4 plugs and a crimping tool.
Sangoma A200 - Technical Specifications
General Features

ï¿½ From 2 to 24 ports supported, mixing FXO and FXS interfaces as required.
ï¿½ Support for the Asterisk, Yate, FreeSwitch, OPAL, PBX/IVR projects, as well as other Open Source and proprietary PBX/Switch/IVR/VoIP gateway applications.

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ï¿½ Single synchronous PCI interface for all 24 FXO/FXS ports.
ï¿½ Four RJ11 ports per REMORA card.
ï¿½ Dimensions: 2U Form factor: 120mm x 55 mm for use in restricted chassis.
ï¿½ Short 2U compatible mounting clips available for installation in 2U rack-mount servers.
ï¿½ 32 bit bus master DMA data exchanges across PCI interface at 132Mbytes/sec for minimum host processor intervention.
ï¿½ Autosense compatibility with 5v and 3.3v PCI busses.
ï¿½ Fully PCI 2.2 compliant, compatible with all commercially available motherboards, proper sharing of PCI interrupts.
ï¿½ Intelligent hardware: Downloadable Field Programmable Gate Array programming with multiple operating modes. Field upgradeable so that new features can be added when they become available.
ï¿½ Power: 800mA peak, operational 300mA max at +3.3v or 5v.
ï¿½ Temperature range: 0 - 50C

Optional DSP daughterboard on the A200d

ï¿½ G.168-2002 echo cancellation in hardware
ï¿½ 1024 taps/128ms tail per channel on all channel densities
ï¿½ DTMF decoding and tone recognition
ï¿½ Voice quality enhancement: Octasic music protection, acoustic echo control and adaptive noise reduction.
ï¿½ 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.
ï¿½ For those who need to hard wire the A200 system, Sangoma provides a kit of 12 RJ11/4 plugs and a crimping tool.

**Please Enquire**

Options available for Sangoma A200 FXO FXS Analogue Card PCI Express (A200 BRME) :

### FXS Modules Required

- Not Required -, 1 x 2 port FXS (+$78.15), 2 x 2 port FXS (4 ports) (+$156.30), 3 x 2 port FXS (6 ports) (+$234.45), 4 x 2 port FXS (8 ports) (+$312.59), 5 x 2 port FXS (10 ports) (+$390.74), 6 x 2 port FXS (12 ports) (+$468.89), 7 x 2 port FXS (14 ports) (+$547.04), 8 x 2 port FXS (16 ports) (+$625.19), 9 x 2 port FXS (18 ports) (+$703.34), 10 x 2 port FXS (20 ports) (+$781.48), 11 x 2 port FXS (22 ports) (+$859.63), 12 x 2 port FXS (24 ports) (+$937.78).

### FXO Modules Required

- Not required -, 1 x 2 port FXO (+$86.23), 2 x 2 port FXO (4 ports) (+$172.47), 3 x 2 port FXO (6 Ports) (+$258.70), 4 x 2 port FXO (8 Ports) (+$344.93), 5 x 2 port FXO (10 Ports) (+$431.16), 6 x 2 port FXO (12 Ports) (+$517.40), 7 x 2 port FXO (14 Ports) (+$603.63), 8 x 2 port FXO (16 Ports) (+$689.86), 9 x 2 port FXO (18 Ports) (+$776.09), 10 x 2 port FXO (20 Ports) (+$862.33), 11 x 2 port FXO (22 Ports) (+$948.56), 12 x 2 port FXO (24 Ports) (+$1,034.79).

### Require Echo Cancellation?

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No,  Yes (+$250.61).

### Require a Slave Card?

- Not Required -,  1 x Slave card (+4 Ports) (+$74.11),  2 x Slave card (+8 Ports) (+$148.21),  3 x Slave card (+12 Ports) (+$222.32),  4 x Slave card (+16 Ports) (+$296.42),  5 x Slave card (+20 Ports) (+$370.53).