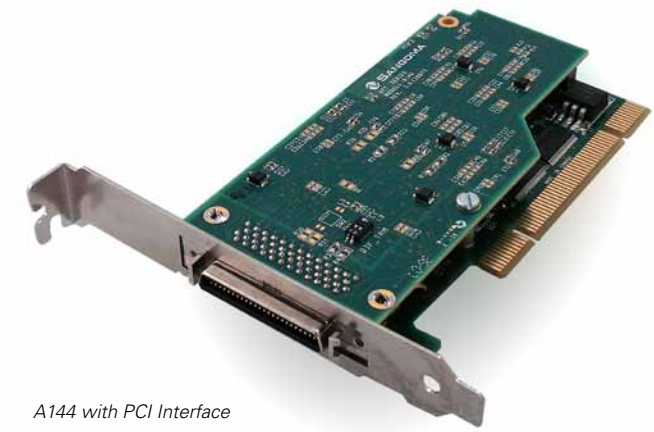
A144 Quad Serial Interface Card

Designed for improved efficiency, the Sangoma A144 Data Card is ideal for synchronous serial applications.

Whether you use the card to simplify routing and increase security using Sangoma's WANPIPE® software; you need support for an X.25 link, a datascope, an SNA connection, or a broadcast satellite feed; or you have another unique application—Sangoma's Serial Synchronous products communicate mission-critical radar control and surveillance data, essential to modern air and sea communications.

This updated card boasts field upgradeable firmware, a choice of PCI or PCI Express interface, and four primary ports that have equal baud rates without the complexity of signalling jumpers.



A144 with PCI Interface

The A144 Synchronous Quad Serial hardware is based on the same advanced engineering design as the award-winning AFT product line. Trust the Sangoma name to deliver optimum data support on standard telecommunications networks.

Technical Specifications

- Four full-speed primary ports supporting either V.35/ RS422/EIA530 or RS232 serial interfaces
- High-speed connections: V.35/RS422/EIA530 to 8 mbps per port. RS232 to 400 kbps per port
- Power: 550 mA at +5 V
- PCI Versions are 32 bit (5 V) and 64 bit (3.3 V) compatible.
- Now available in PCI or PCI Express
- Operating temperature range: 0 – 50°C

4-port DB25 Octopus Cable Included

- Software configurable or by machine BIOS
- Dimensions: 2U Form factor: 120 mm x 55 mm for use in restricted chassis

Datascope Features

- All modem control lines are monitored
- Either monitoring only or simulation (transmit and receive)
- Monitoring or simulation of ATM or HDLC at line speeds above 8 Mbps
- Time stamps with a resolution of 100 microseconds or better to allow accurate sequencing of events; each character can be individually time stamped

Serial Interfaces

- V.35, X.21, RS422 or EIA530, or RS232 supported on all four primary ports
- Clocking: Internally generated or external at line speeds to 8 Mbps
- NRZ, NRZi, FM0, FM1, Manchester encoding
- All ports are RS485—capable of supporting multipoint lines

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Line Protocols

- Frame Relay, Transparent bit-stream
- X.25, ATM, PPP, SS7, SDLC are supported on Linux
- HDLC is supported on Windows

Higher Level Protocols

IP/IPX over Frame Relay/ PPP/ HDLC/ X.25, X.25 over Frame Relay (Annex G), PPPoE, PPPoA, IP over ATM

Operating Systems

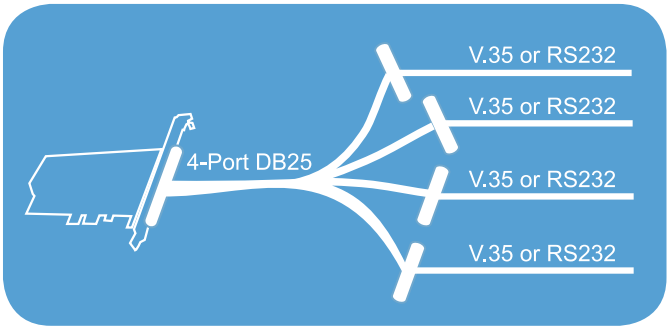
- Windows® 2003, Windows® XP, Windows® Server 2008, Windows® Vista
- Linux (all versions, releases and distributions from 1.0 up)

Diagnostic Tools

WANPIPEMON®, SNMP, System logs.

Cabling Overview

For pinouts, see wiki.sangoma.com



Production Quality

ISO 9002

Warranty

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

Ordering Information

Cables, if required, are included at no additional charge.

SKU	Quad Serial Interfaces	BUS	Baud Rate Per Port	Cables
A144V39	V.35	PCI	8 Mbps	4-port DB25 Octopus Cable
A144V3908	V.35	PCI	8 Mbps	4-port DB25 Octopus Cable and Four V.35 Cables
A144X39	X.21	PCI	8 Mbps	4-port DB25 Octopus Cable
A144X3913	X.21	PCI	8 Mbps	4-port DB25 Octopus Cable and Four X.21 Cables
A144R38	RS232	PCI	400 Mbps	4-port DB25 Octopus Cable
A144R3807	RS232	PCI	400 Mbps	4-port DB25 Octopus Cable and Four RS232 Cables
A144E39	EIA530	PCI	8 Mbps	4-port DB25 Octopus Cable
A144E3911	EIA530	PCI	8 Mbps	4-port DB25 Octopus Cable and Four EIA530 Cables
A144VE39	V.35	PCIe	8 Mbps	4-port DB25 Octopus Cable
A144VE3908	V.35	PCIe	8 Mbps	4-port DB25 Octopus Cable and Four V.35 Cables
A144XE39	X.21	PCIe	8 Mbps	4-port DB25 Octopus Cable
A144XE3913	X.21	PCIe	8 Mbps	4-port DB25 Octopus Cable and Four X.21 Cables
A144RE38	RS232	PCIe	400 kbps	4-port DB25 Octopus Cable
A144RE3807	RS232	PCIe	400 kbps	4-port DB25 Octopus Cable and Four RS232 Cables
A144EE39	EIA530	PCIe	8 Mbps	4-port DB25 Octopus Cable
A144EE3911	EIA530	PCIe	8 Mbps	4-port DB25 Octopus Cable and Four EIA530 Cables

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