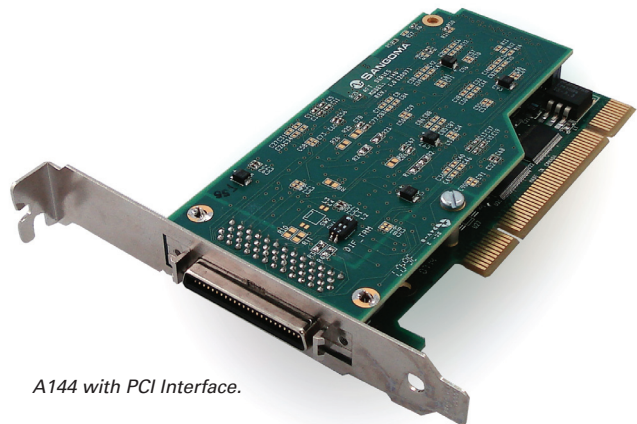# Sangoma Data Card
A144 Synchronous Quad Serial Card

Now newly redesigned for improved efficiency, the Sangoma A144 Data Card replaces the Sangoma S5142 card. 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, BSC at line speeds to 128 kbps.

- Supports Asynch to 256 kbps, and raw unformatted bit streams to 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, 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.

Because it must work!

SANGOMA

Line Protocols

• ATM, Frame Relay, X.25, HDLC, PPP, SS7,
  BSC Point-to-Point, BSC 3270, SDLC, Transparent
  bit-stream.

Higher Level Protocols

• IP/IPX over Frame Relay/ PPP/ HDLC/ X.25, X.25 over
  Frame Relay (Annex G), BSC over X.25 (DMT and TCOP),
  SNA over X.25, PPPoE, PPPoA, IP over ATM.
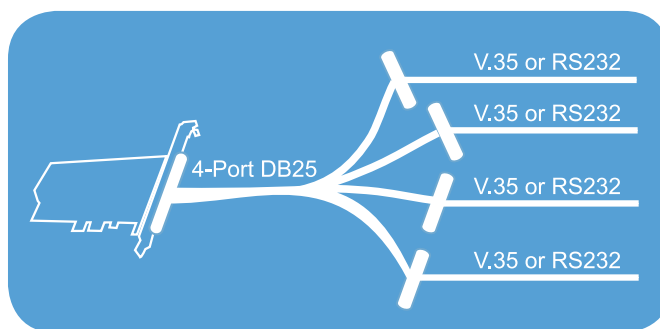
Operating Systems

• Windows® 2000, Windows® XP, Windows® 9x.

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

• FreeBSD.

• Solaris.

Diagnostic Tools

WANPIPEMON®, SNMP, System logs.

Cabling Overview

For pinouts see www.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
A144V	V.35/RS422/EIA530	PCI	8 Mbps	Card ONLY
A144V39	V.35/RS422/EIA530	PCI	8 Mbps	4-port DB25 Octopus Cable Included
A144V3908	V.35/RS422/EIA530	PCI	8 Mbps	4-port DB25 Octopus Cable and four V.35 Cables Included
A144R	RS232	PCI	400 kbps	Card ONLY
A144R38	RS232	PCI	400 kbps	4-port DB25 Octopus Cable Included
A144R3807	RS232	PCI	400 kbps	4-port DB25 Octopus Cable and four RS232 Cables Included
A144VE	V.35/RS422/EIA530	PCIe	8 Mbps	Card ONLY
A144VE39	V.35/RS422/EIA530	PCIe	8 Mbps	4-port DB25 Octopus Cable Included
A144VE3908	V.35/RS422/EIA530	PCIe	8 Mbps	4-port DB25 Octopus Cable and four V.35 Cables Included
A144RE	RS232	PCIe	400 kbps	Card ONLY
A144RE38	RS232	PCIe	400 kbps	4-port DB25 Octopus Cable Included
A144RE3807	RS232	PCIe	400 kbps	4-port DB25 Octopus Cable and four RS232 Cables Included

For more information, please call toll free in North America **1.800.388.2475**, direct at **+ 001 905 474 1990** or
email: **sales@sangoma.com.**

www.sangoma.com

SANGOMA