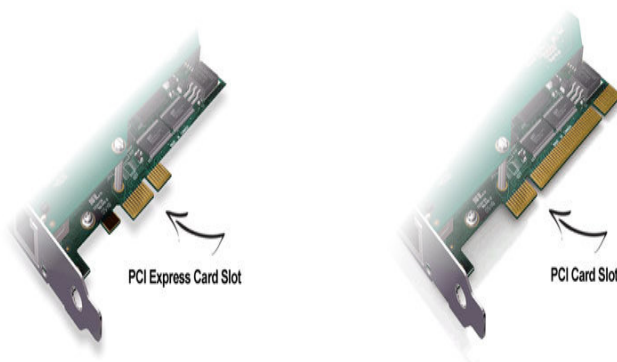Product Name: Sangoma D500-500e PCI Express Voice Transcoding Card with 5 Transcoding Modules (Up to 2,000 Transcoding Sessions)

Manufacturer: Sangoma

Model Number: D500-500E

Sangoma D500-500e PCI Express Transcoding card with 5 transcoding modules (Up to 2,000 Transcoding Sessions)

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

The industry’s highest density transcoding card - designed for optimum voice quality for high port count systems, offering from 400 to 2,000 transcoding sessions in one compact PCIe form factor!

IP telephony applications commonly require the use of multiple voice codecs, used to digitally compress voice signals and save on bandwidth. Voice signals from the Public Switched Telephone Network (PSTN) come in the form of the G.711 codec, but the VoIP terminal equipment and networks can support a variety of different voice codecs, such as G.729, G.726, AMR, G.722, iLBC, etc. Sangoma D500e Key Features

• No Licensing Fees²
• Integrates in Asterisk® and FreeSWITCH®
• Works on Linux and Windows®
• Simple C API
• PCI Express

The VoIP infrastructure needs the capability to mediate between endpoints supporting different codecs, but this functionality requires digital signal processing tasks that are often costly and resource-intensive, and can affect the quality of the voice signals, if it introduces too much latency and delay.

The D500 card converts numerous simultaneous sessions of transcoding from one type of codec (e.g. G.711) to another (e.g. G.729), without affecting latency or using up precious host CPU

resources. The card allows up to 2,000 sessions of any-to-any voice codec conversion, with unmatched quality¹. All codecs are fully indemnified no additional licensing is required for their use².

The D500 works with both Asterisk® and FreeSWITCH®. With compatible drivers, these applications can use the D500 cards as seamless voice transcoding resources. Alternatiely, developers and integrators can use the Transcoding API in C for their own application development.

Sangoma D500-500e - Technical Specifications

Highlights

• No Licensing Fees²
• Integrates in Asterisk® and FreeSWITCH®
• Works on Linux and Windows®
• Simple C API
• PCI Express

Codec support

• G.711
• GSM-FR
• G.722
• GMS-EFR
• G.722.1 (HD Voice)
• AMR
• G.723.1
• AMR-WB (G.722.2)
• G.726
• L16 (Linear 16K)
• G.729AB
• iLBC

Sample Applications

• Hosted VoIP
• Hosted PBX
• PBX with HD Voice
• Call Centres
• IP Network Peering

Software

• Support for Asterisk and FreeSWITCH
• Transcoding API in C
• Media flows in and out of 2x GigE ports and/or PCIe bus

Dimensions

• Length: 245.2mm
• Height: 106.1mm

Operating Systems

• Linux
• Windows®

Operating Systems

• Linux
• Windows®

Certification

• Emissions: FCC Part 15 Class B, CISPR 22/ EN55022 Class B
• Immunity: CISPR 24/EN55024
• IEC/EN 60950 safety is pending

Bus Supported

• PCIe: x1 bus width, V1.1

Power Requirements

• 24W (1.6A @ 12V; 1.5A @ 3.3V)

Operating Temperature Range

• Temperature range: 0 – 50 °C

Network Interfaces

• 2x Gigabit Ethernet ports

Production Quality

• ISO 9002

Warranty

• D-Series hardware comes with a standard 5-year warranty with product registration when puchased through an authorized Empowered by Sangoma representative
• 30-day “no questions asked” return policy

Price: £6,212.56