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Data Sheet

August 15, 2026

ABACO SYSTEMS / SBS

Abaco Systems / SBS S4110-CC03-AR Sentiris PMC 4110 COTS Graphics Subsystem with NVIDIA Quadro4 GPU Card

The Abaco Systems Sentiris PMC 4110 is a PCI Mezzanine Card graphics subsystem built around the NVIDIA Quadro4 GPU for embedded visual computing in aerospace, defense, and industrial automation. This IEEE 1386.1-compliant card delivers 7.0 GB/sec graphics bandwidth and processes up to 400 MP/s pixel fill rate with trilinear filtering enabled, supporting complex realtime visualization and 3D rendering tasks. Typical Applications Digital mapping, situational awareness displays, control system visualization, and data-intensive processing tasks exploiting GPU parallelism. Aumictech offers NIST-traceable calibration and repair for the Abaco Systems / SBS S4110-CC03-AR. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus function

**MODEL****Abaco Systems /
SBS S4110-CC03-
AR****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****S4110-CC03-AR****LISTING**<https://aumictechlabs.com/products/s4110-cc03-ar-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Abaco Systems Sentiris PMC 4110 is a PCI Mezzanine Card graphics subsystem built around the NVIDIA Quadro4 GPU for embedded visual computing in aerospace, defense, and industrial automation. This IEEE 1386.1-compliant card delivers 7.0 GB/sec graphics bandwidth and processes up to 400 MP/s pixel fill rate with trilinear filtering enabled, supporting complex realtime visualization and 3D rendering tasks.

Technical Specifications

GPU: NVIDIA Quadro4
Graphics Memory: 64 MB DDR SDRAM with 128-bit interface
Graphics Bandwidth: 7.0 GB/sec
Pixel Fill Rate: Up to 400 MP/s (trilinear filtering)
Triangle Throughput: 5.4M texture-mapped triangles/sec (trilinear)
3D Anti-Aliased Lines: 4.8M lines/sec
Core Clock Speed: 220 MHz
Internal Architecture: 256-bit dual graphics pipeline Z and RGBA Buffering: 6-bit or 32-bit
Texture Filtering: Trilinear and anisotropic
Anti-Aliasing: Accuvision full-scene and drawing primitive anti-aliasing
Workstation Features: Overlay planes, 2-sided lighting
Key Features: Dual independent analog and digital RGB outputs (DVI/TMDs and LVDS) Analog output resolutions to 2048 × 1536; digital to 1600 × 1200
Video input support: NTSC, PAL, RS-170, RS-170A, S-Video
GPGPU capability for parallel-processing applications including signal processing, target tracking, and surveillance
Typical Applications: Digital mapping, situational awareness displays, control system visualization, and data-intensive processing tasks exploiting GPU parallelism.

Compatibility & Integration

Form Factor: PMC (IEEE 1386.1)
PCI Bus: 66 MHz interconnect support with Single Board Computers
Operating Systems: Windows 2000, Windows XP, Windows XP Embedded, Linux, VxWorks (IA and PowerPC)
Graphics APIs: OpenGL 1.3, DirectX 8.0 (IA32 systems)

S4110CC03AR Characteristics / Specifications

PARAMETER	VALUE
Model	S4110-CC03-AR
Also Known As	Sentiris PMC 4110
Instrument Type	PMC graphics subsystem
Gpu	NVIDIA Quadro4
Memory	64 MB DDR
Memory Interface	128 bit
Graphics Bandwidth	7.0 GB/s
Pixel Fill Trilinear	up to 400 megapixels per second
Triangle Rate	3.5 M independent texture mapped triangles per second trilinear
Line Rate	2.6 M 3D anti-aliased lines per second
Host Pci	66 MHz PCI-bus interconnect class
Analog Resolution	to 2048 × 1536
Digital Resolution	to 1600 × 1200
Outputs	dual independent analog and digital RGB DVI/TMDs and LVDS
Color Depth	16 or 32 bit RGBA and ZFiltering: trilinear and anisotropic
Apis	OpenGL 1.3 and DirectX 8.0 on Intel IA32
Cooling	conduction cooled CC03
Related Convection	S4110-CV00 through CV04 convection variants
Form Factor	PMC
Manufacturer	SBS / Abaco Systems
Use Case	embedded visual computing
Literature	SBS Sentiris PMC 4110 product literature
Operating Temperature Class	extended or MIL-SPEC options on Sentiris family
Bandwidth	7.0 GB/s
Operating temperature	Class: extended or MIL-SPEC options on Sentiris family

S4110CC03AR Specifications

PARAMETER	VALUE
Applications	Rugged embedded 2D/3D displays, multi-channel video, and cockpit/ground-station graphics on PMC SBCs.
Key Features	NVIDIA Quadro4 embedded GPU
Dual analog and DVI/LVDS outputs	Conduction cooled CC03 variant
Technical Specifications	Model: S4110-CC03-AR

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: extended or MIL-SPEC options on Sentiris family
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Operating Temperature Class	extended or MIL-SPEC options on Sentiris family Notes From SBS/Abaco Sentiris PMC 4110 / S4110-CC03-AR product literature (Quadro4, 64 MB DDR, bandwidth, rates, resolutions). Confirm convection versus conduction-cooled dash code on the installed module.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Color Depth	16 or 32 bit RGBA and Z
Filtering	trilinear and anisotropic
Apis	OpenGL 1.3 and DirectX 8.0 on Intel IA32
Cooling	conduction cooled CC03
Related Convection	S4110-CV00 through CV04 convection variants
Form Factor	PMC
Manufacturer	SBS / Abaco Systems
Use Case	embedded visual computing
Literature	SBS Sentiris PMC 4110 product literature
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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.