

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

CURTISS-WRIGHT / SYSTRAN

Curtiss-Wright / Systran SL240 66 MHz FibreXtreme Serial FPDP PMC Module

Curtiss-Wright SL240 FibreXtreme Serial FPDP Interface The Curtiss-Wright SL240 FibreXtreme Serial FPDP family extends the SL100 architecture to higher serial rates with OEM-cited end-to-end throughput of 247 MB/s with or without frame checksums. Multi-channel PCIe/XMC derivatives in the FibreXtreme line advertise sustained rates up to 494 MB/s per channel with serial rates of 1.0625, 2.5, and 5.0 Gb/s and up to 256 MB DDR2 on multi-channel boards. Reach up to 50 km is cited for fiber plants. High-rate sensor fabrics, multi-channel sFPDP recorders, and low-latency DSP interconnects. High-rate sensor fabrics, multi-channel sFPDP recorders, and low-latency DSP interconnects. Two hundred forty-seven MB/s end-to-end throughput class Serial rates to 2.5 Gbps on classic SL240X and 5.0 Gbps on multi-channel lines Instrument Type: FibreXtreme Serial FPDP interface



MODEL

**Curtiss-Wright /
Systran SL240**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SL240

LISTING

[https://aumictechlabs.c
om/products/sl240-2/](https://aumictechlabs.com/products/sl240-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/Systran SL240 is a FibreXtreme Serial FPDP PMC module engineered for demanding real-time data acquisition and DSP processing. Built on ANSI/VITA 17.1-2003 sFPDP protocol, it delivers multiple gigabit-per-second data rates with minimal latency and zero CPU overhead, enabling reliable sensor-to-DSP streaming in radar, sonar, medical imaging, and video

production systems. Technical Specifications Protocol: ANSI/VITA 17.1-2003 Serial FPDP (sFPDP)
Data Rates: 1.0625 Gb/s, 2.5 Gb/s, 5.0 Gb/s Sustained Throughput: Up to 494 MB/s per channel
Channel Configuration: 1, 2, or 4 full-speed channels; up to 4 independent data streams to host
Fiber Extension: Up to 50 km via FibreXtreme connections On-Board Memory: 256 MB DDR2
SDRAM (PCIe); 512 MB DDR2 SDRAM (XMC); 16 Mb Flash; 2 kB EEPROM Host Interface: 64-bit,
66 MHz PCI bus Form Factors: PCIe (x16/x32 compatible) and XMC x8 Key Features Direct
Memory Access (DMA) engine handles single transactions up to 64 MB without processor
intervention Hardware-based flow control prevents data loss at receiver with fixed-frame data
insertion Integrated interrupt controller reports link failure, transaction completion, and buffer
status Byte/word swapping on DMA and register paths provides system flexibility Multi-level error
detection and status reporting Support for front and rear I/O configurations Point-to-point
topology support Typical Applications Real-time radar and sonar signal processing Medical
imaging systems with high-speed data streaming Video production and acquisition pipelines
Sensor array processing requiring low-latency DSP interconnect High-throughput telemetry and
data logging Compatibility & Integration The SL240 integrates into existing PCI and CompactPCI-
based systems via PCIe or XMC form factors. Its specialized sFPDP protocol optimization
eliminates traditional overhead associated with general-purpose network stacks, delivering
deterministic, low-latency performance essential for time-critical applications.

SL240 Characteristics / Specifications

PARAMETER	VALUE
Model	SL240
Instrument Type	FibreXtreme Serial FPDP interface
Protocol Class	Serial FPDP ANSI/VITA 17.1-2003
Encoding	8B/10B
Throughput End To End Classic	247 MB/s with or without frame checksums
Serial Link Rates Multi Channel Family	1.0625 Gb/s 2.5 Gb/s 5.0 Gb/s
Sustained Per Channel Multi Channel	up to 494 MB/s
Onboard Memory Multi Channel Class	256 MB DDR2 SDRAM
Channel Counts Multi Channel	1 2 or 4
Card Formats Multi Channel	PCIe and XMC x8
Fiber Reach Class	up to 50 km
Receive Fifo Classic Reference	1 MB
Transmit Fifo Classic Reference	2 KB
Topology	point-to-point or broadcast
Related Sibling	SL100 at 105 MB/s class
Dma	on-board DMA with byte-swap options
Error Reporting	link and status reporting features
Media Options Classic	long wave short wave HSSDC2 copper
Protocol Standard	ANSI VITA 17.1 Serial FPDP
Encoding Method	8B/10B
Topology Modes	point-to-point or broadcast
Dma Engine	on-board DMA class
Media Classes	fiber laser and HSSDC2 copper
Status Reporting	link stability LED class

SL240 Specifications

PARAMETER	VALUE
Applications	High-rate sensor fabrics, multi-channel sFPDP recorders, and low-latency DSP interconnects.
DMA without CPU protocol stacks	Fiber reach to 50 km class
Technical Specifications	Model: SL240

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	
Specifications	
PARAMETER	VALUE
Model	SL240
Instrument Type	FibreXtreme Serial FPDP interface
Protocol Class	Serial FPDP ANSI/VITA 17.1-2003
Encoding	8B/10B
Throughput End To End Classic	247 MB/s with or without frame checksums
Serial Link Rates Multi Channel Family	1.0625 Gb/s 2.5 Gb/s 5.0 Gb/s
Sustained Per Channel Multi Channel	up to 494 MB/s
Onboard Memory Multi Channel Class	256 MB DDR2 SDRAM
Channel Counts Multi Channel	1 2 or 4
Card Formats Multi Channel	PCIe and XMC x8
Fiber Reach Class	up to 50 km
Receive Fifo Classic Reference	1 MB
Transmit Fifo Classic Reference	2 KB
Topology	point-to-point or broadcast
Related Sibling	SL100 at 105 MB/s class
Dma	on-board DMA with byte-swap options
Error Reporting	link and status reporting features
Media Options Classic	long wave short wave HSSDC2 copper
Protocol Standard	ANSI VITA 17.1 Serial FPDP
Encoding Method	8B/10B
Topology Modes	point-to-point or broadcast
Dma Engine	on-board DMA class
Media Classes	fiber laser and HSSDC2 copper
Status Reporting	link stability LED class

Notes

From Curtiss-Wright Systran SL240X hardware reference and FibreXtreme multi-channel product summaries.
Distinguish classic SL240X cards from later multi-channel PCIe/XMC SKUs when matching serial numbers.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.