

500 MSPS CAMERA LINK DATA ACQUISITION BOARD



Product Features & Benefits

- **1 channel 500MS/s**
- **12-bit Resolution**
- **Supports a wide range of laser sweep rates**
- **200MHz Bandwidth (configurable)**
- **Number of points per A Scan configurable**
- **Configurable with external k-clock or internal 500MSPS clock**
- **A-line trigger output via SMA connector**
- **Base Camera Link® interface configuration**
- **85MHz, 24 bit Pixel Data**
- **USB interface**

Applications

- **Optical Coherence Tomography for**
 - **Ophthalmology**
 - **Gastrointestinal**
 - **Cancer Diagnosis**
 - **Pulmonary**
 - **Industrial Imaging**
 - **Research & Development**

Introducing the AXSUN 500MSPS DAQ Board

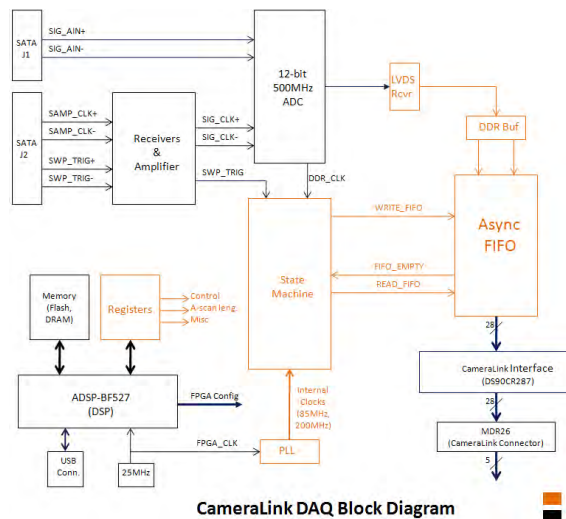
To meet the performance needs of next-generation Optical Coherence Tomography (OCT) systems, Axsun Technologies introduces a high speed 12-bit Data Acquisition board compatible with Axsun's high performance swept laser OCT Engine products.

Product Description

The AXSUN DAQ board has a 12-bit 500 MSPs front end, configurable with either an external k-trigger, or an internal trigger, and a base Camera Link® (CL) interface to transmit OCT spectral data to your image processing electronics. The Axsun CL-DAQ card is designed to interface seamlessly with commercial CL Frame Grabbers and provide a straightforward Swept Source upgrade path to Camera based OCT systems.

Convenience and Small Form Factor

The Axsun high speed DAQ board resides in a compact (~114 x 177 x 13 mm) package and is straightforward to integrate with the Axsun Swept Source Engine. The single DC supply, and USB interface allow the user to begin collecting data in a matter of minutes.



CameraLink DAQ Board Simplified Block Diagram

PERFORMANCE SPECIFICATIONS FOR CL DAQ BOARD

Parameter	CLDAQ 12500			
	Min	Typ	Max	Units
A/D Resolution		12		Bits
ENOB		10.7		Bits
Sampling Rate	40		500	MSPs
Sweep Rep Rate ¹	20		150	kHz
Input Connectors		SATA		
Trigger/Clock/Detector input level		LVDS		
Output Connector		Camera Link		
Camera Link® Configuration		Base		85MHz 24-bit
Video Throughput Rate			255	MB/s
Bandwidth (-3dB)		200		MHz
Input Voltage Range (differential)		± 1.1		V
Power Supply		12		VDC
Mechanical Dimensions	~114 X 177 X 13 mm ~ 4.5 X 7 x 0.51 inches			
Interfaces				
USB (optional)	USB-B			

1. Dependent on Swept laser linearization and maximum K clock frequency.

Axsun SSOCT Engine with DAQ Board



For more information

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