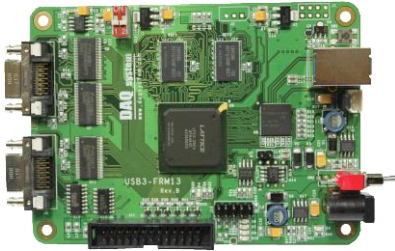


## USB3-FRM13

### Base/Medium/Full Configuration Camera-link Frame Grabber Board



#### INTRODUCTION

The USB3-FRM13 interworks with the Camera Link Camera, it is a board already transmitting a frame to PC to USB3.0 Super Speed (5Gbps) methods.

#### GENERAL DESCRIPTION

- ◆ Support Camera Link Camera
- ◆ USB 3.0 Specification Host Interface
- ◆ Supports PoCL (Power over Camera Link)
- ◆ Power by type-B connector for power(5V) or External 12V DC Power
- ◆ Super Speed Device 5Gbps
- ◆ 256MByte DDR2 (128MB x 2)

#### APPLICATION

- ◆ Black and White, Color Image Display
- ◆ Image Acquisition (Pattern, Particle etc)
- ◆ Inspection Equipment (Sensor, Semiconductor, Device etc)
- ◆ Medical Image Capture (X-ray, Supersonic)

#### SOFTWARE

##### ■ Operating System

- Windows 2000/XP/7/8/10 (32/64bit)

##### ■ API

- Interface with Application through client DLL

#### SPECIFICATION

##### ■ Features

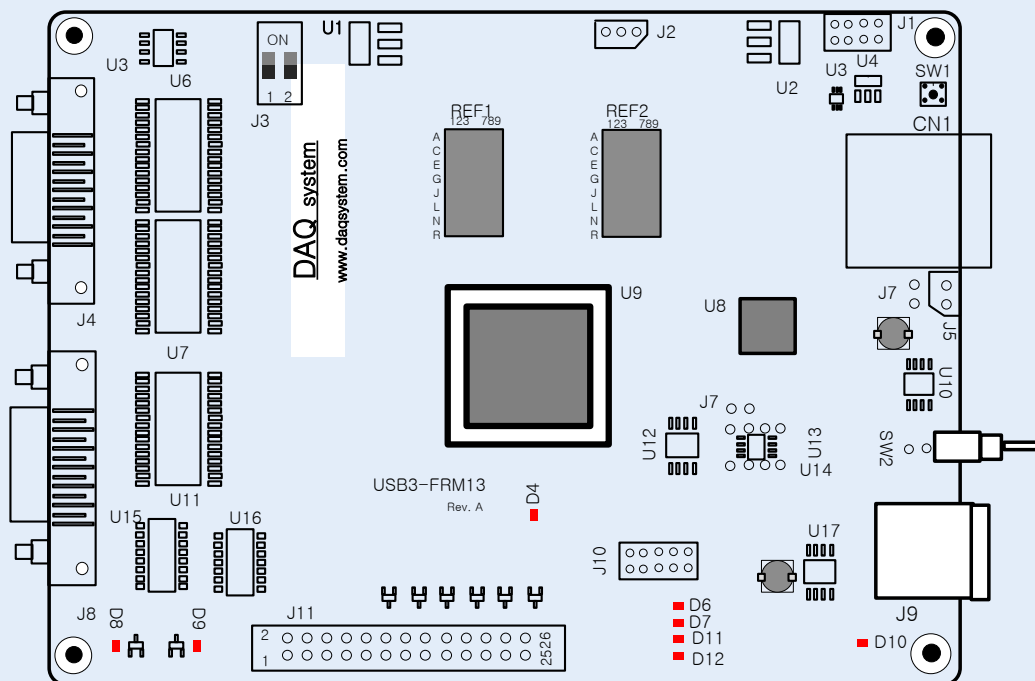
- Supports USB3.0 specification type B Connector
- Super Speed(5Gbps) device
- Pixel Clock : 20 ~ 85MHz
- Under 8Tap supports 85MHz / 10Tap supports 65MHz

##### ■ Functions

- PoCL (Base Connector)
- All of the board functions are controlled by the logic program of the FPGA.
- Support 1-CH Camera Link Base/Medium/ Full Configuration
- A,B,Z phase RS422 signal input
- Line Trigger input
- Line Trigger Output

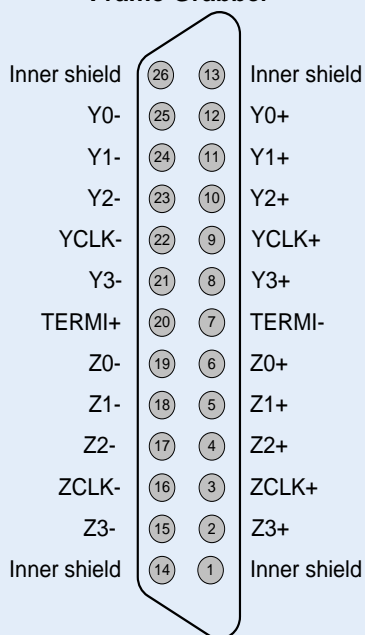
## Board Feature

### USB3-FRM13 Board



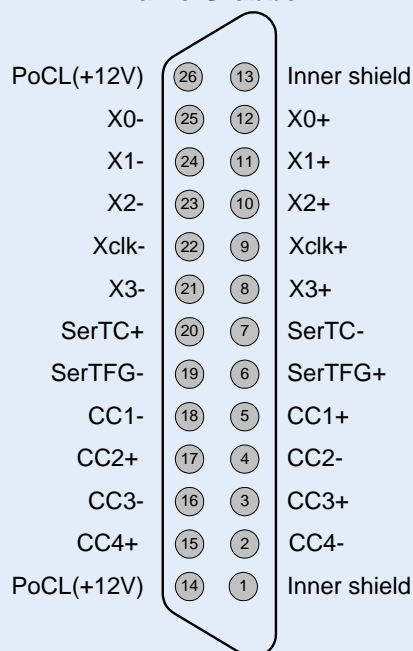
## Connector Map

### Frame Grabber



Medium/Full Camera Link : J4

### Frame Grabber



Base Camera Link : J8

## PHYSICAL/ENVIRONMENTAL

### ■ From Factor

- USB3.0

### ■ Dimension

- Camera Interface : Camera Link
- Dimension (not including connectors) : 110mm x 80 mm

### ■ Temperature

- 0 to 60°C, Operating
- -20 to 70°C Storage

### ■ Relative Humidity

- 5 to 95%, Non-considering

### ■ Power Requirement

- Power Supply through USB(Max. 500mA)
- 12V (Max. 1A)

## BLOCK DIAGRAM

