

## USB3-FRM13-B

### Base Configuration Camera-link Frame Grabber Board



#### **INTRODUCTION**

The USB3-FRM13\_B 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)

#### **SPECIFICATION**

##### ■ Features

- USB 3.0 Specification
- Super Speed(5Gbps) device
- Supports USB3.0 specification type B Connector
- Maximum camera link data rate : 85MHz

##### ■ Functions

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

#### **SOFTWARE**

##### ■ Operating System

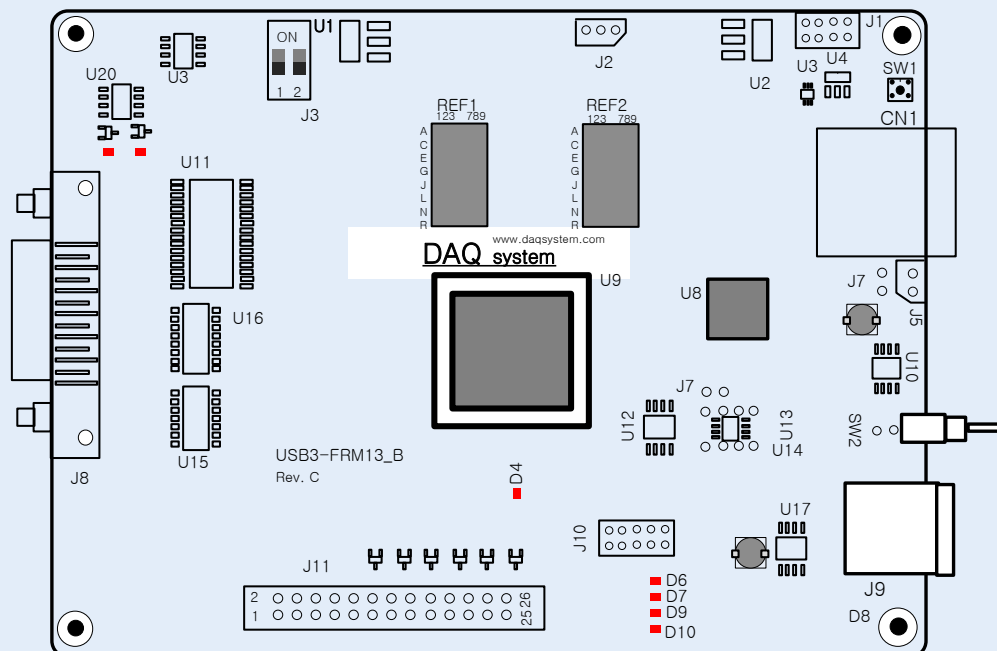
- Windows 2000/XP/7/8/10 (32/64bit)

##### ■ API

- Interface with Application through client DLL

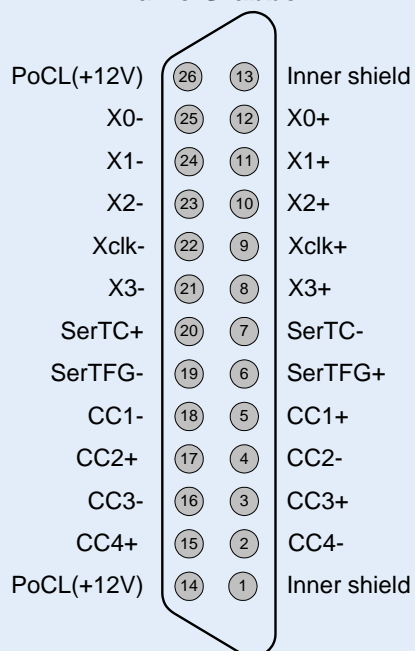
## Board Feature

### USB3-FRM13\_B Board



## Connector Map

### 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

