

## EMB-FPDP02

### Embedded CMOS Image to Fiber Converter Board



#### INTRODUCTION

The EMB-FPDP02 is a board having the function of processing the frame data received from the CMOS Camera Interface and converting a Fiber to transfer to PC for saving image data.

#### GENERAL DESCRIPTION

- ◆ CMOS Image Transfer to Fiber Interface(PCIe-FPDP01)
- ◆ Using a Serial FPDP(Front Panel Data Port)
- ◆ Progressive readout
- ◆ 1.062/2.215GB/s for Fibre Channel

#### 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**
  - Not Applicable
- **Recommended Software**
  - Not Applicable

#### SPECIFICATION

##### ■ Features

- 105Mb/s ~ 247Mb/s Transmission
- I2C Image Control Interface
- 8bit-raw Image Data
- Support 5M(2560x1920) pixels

##### ■ Functions

- CMOS Camera Interface
- Various Output Voltage for Sensor  
Support : 0.8 ~ 5.0V , 50mV Increments,  
Max 700mA
- Progressive readout

#### PHYSICAL/ENVIRONMENTAL

##### ■ Temperature

- 0 to 60°C, Operating
- -20 to 80°C Storage

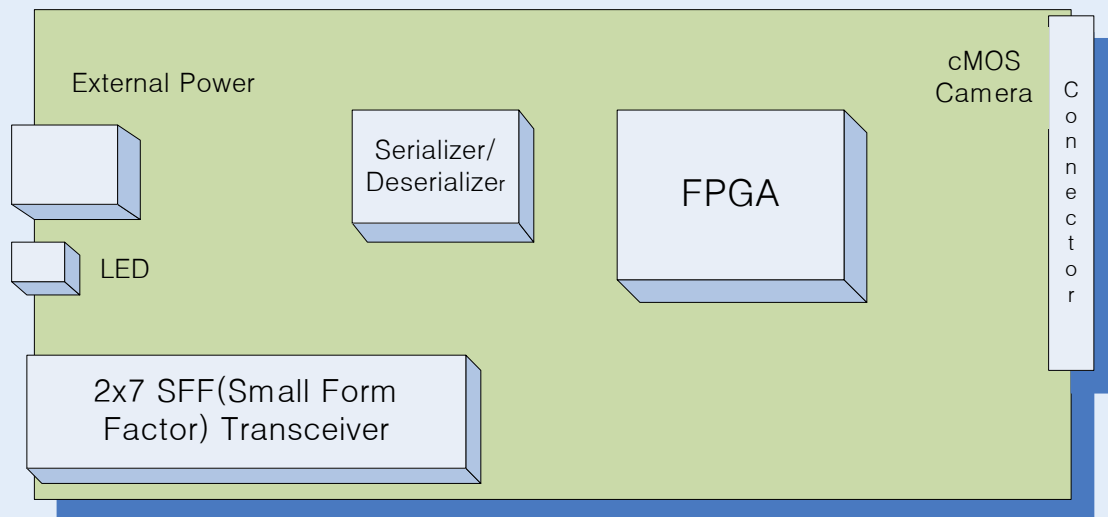
##### ■ Relative Humidity

- 5 to 95%, Non-considering

##### ■ Product Size

- 97mm(L) x 50mm(W)

## ■ Board Feature



## ■ Connector Pin Map

CD0	①	②	CD1
CD2	③	④	CD3
CD4	⑤	⑥	CD5
CD6	⑦	⑧	CD7
	⑨	⑩	
HSYNC	⑪	⑫	VSYNC
MCLK	⑬	⑭	ENABLE
SCL	⑮	⑯	SDA
PCLK	⑰	⑱	RESET
RXD	⑲	⑳	TXD
LVCC1	㉑	㉒	LVCC2
GND	㉓	㉔	GND
LVCC3	㉕	㉖	LVCC4
REV0	㉗	㉘	REV1
REV2	㉙	㉚	REV3
3.3V	㉛	㉜	3.3V
+5V	㉝	㉞	+5V