User Guide

JMC
Systems Engineering

Model – SC510N4 SDI

![JMC Systems Engineering logo]
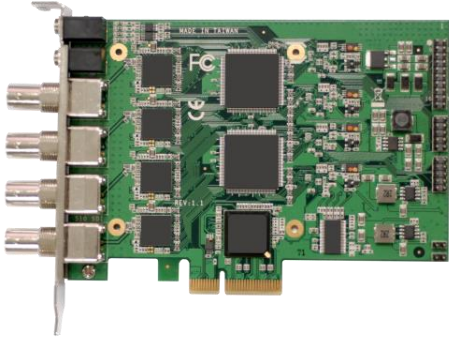
1、 Introduction

SC510N4 SDI is a high-quality, high-performance capture device. It supports up to 4 channels of video inputs with SDI connectors.

2、 Specification

SC330 Product Series Hardware Specification	
Model	SC510 N4 SDI
Max. FPS	120/100fps @ 1920x1080p
Recording Mode	Software Compression, Real-Time Mode
Product Photo	
Dimension	140 × 94.5 (mm)
Interface	PCIe x4
Video Input	4 × SDI
Display Video Format	YUY2
Display Video Resolution	1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 720×480i@60fps 720×576i@50fps
Recording Video Format	MPEG4 / H.264 (Software Compression)
Recording Video Resolution	1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 720×480i@60fps 720×576i@50fps
Audio Input	4 × embedded SDI

Audio Format	Stereo / 16-bit / 48000Hz
I/O	16
WatchDog	✓
SDK	VC++ / .NET / VB / V4L2
System Requirement	
OS Support	Windows XP / Vista / Windows 7 Linux 2.6.14 or Higher (32-bit and 64-bit)

3、   Packing List

Item	Amount
SC510N4 SDI Capture Card	1 (piece)
Audio cable	2 (piece)
Watchdog cable	1 (piece)
USB stick or CD with driver	1 (piece)

4、   Hardware Installation

Before You proceed

Please note below precautions before any install/uninstall operations:

✓   ALWAYS turn off the system before hardware installation/un-installation.

✓   ALWAYS unplug the power cord from the wall outlet/socket before hardware installation/un-installation.

✓   ALWAYS touch a safely grounded object or metal object before touching the device.

✗   DO NOT touch any devices before the system is fully off.

✗   DO NOT touch any electrical and semiconductor components on the device, especially ICs on board.

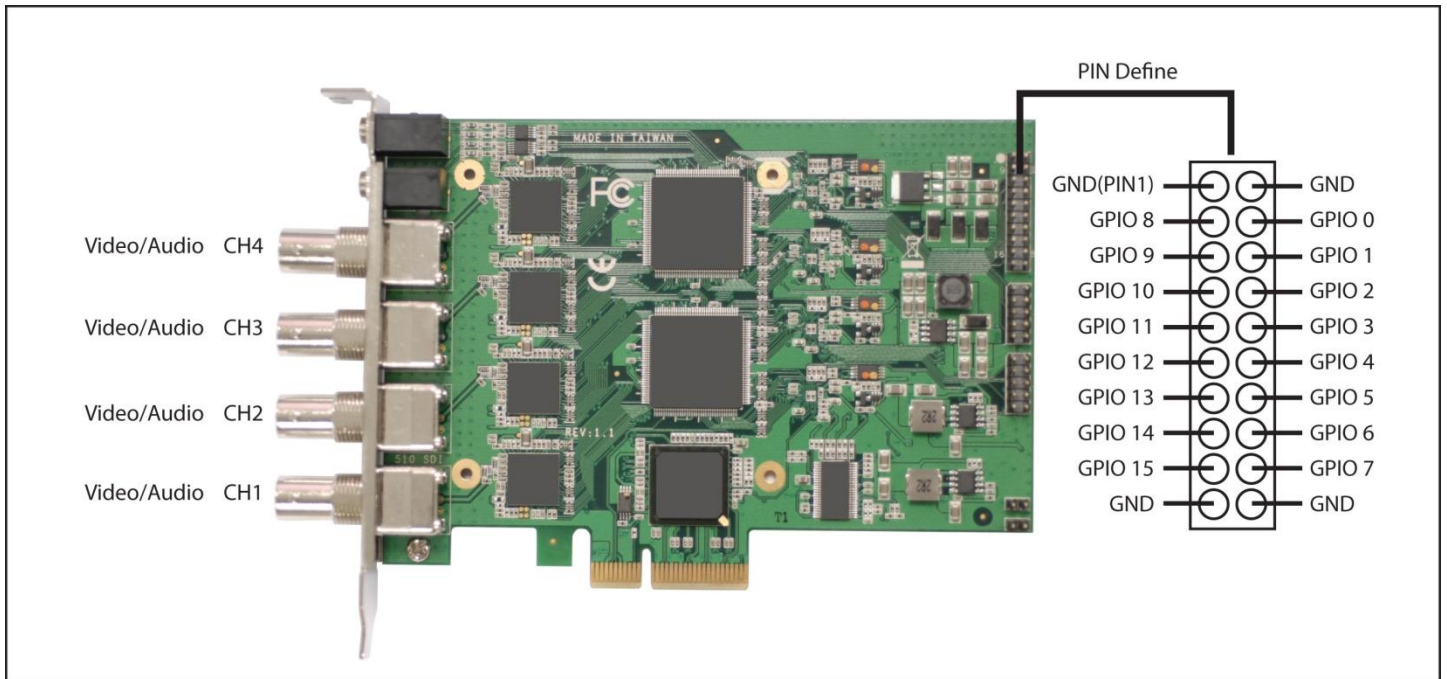### 4.1 Card and Driver Installation

Step 1: Turn off the system and unplug power cord from wall outlet/socket.

Step 2: Remove the computer system case cover.

Step 3: Plug capture device into an available PCIe slot on motherboard.

Step 4: After hardware installation is completed, then install the driver.

4.2 Signal Source Connection Diagram

4.3 Watchdog cable Installation (optional)

Watchdog function is to reset the PC automatically when the system is crashed on an unknown error.