DVP-1020
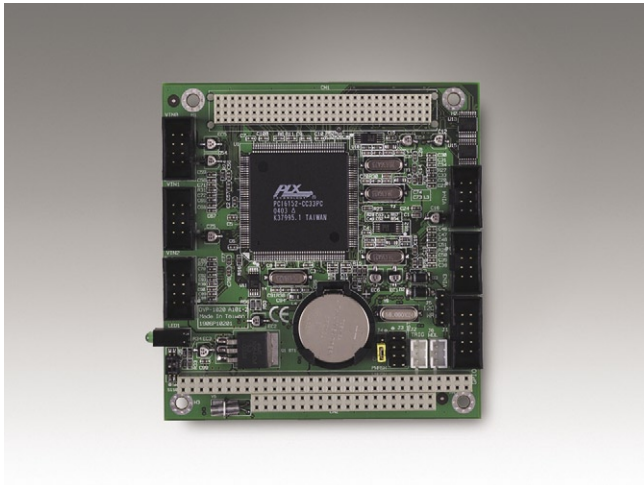
4 ~ 16 Channel PC/104-Plus Video Capture Module

Features

- 4 channel composite input, captures up to D1 resolution at 30/25 fps frame rate
- 4 Conexant fusion 878A video capture chips on board
- Built-in 128-byte user programmable EEPROM
- Up to 3 modules installed in one PC, set by onboard DIP switch
- 8-bit TTL/CMOS level Digital I/O
- Watchdog timer
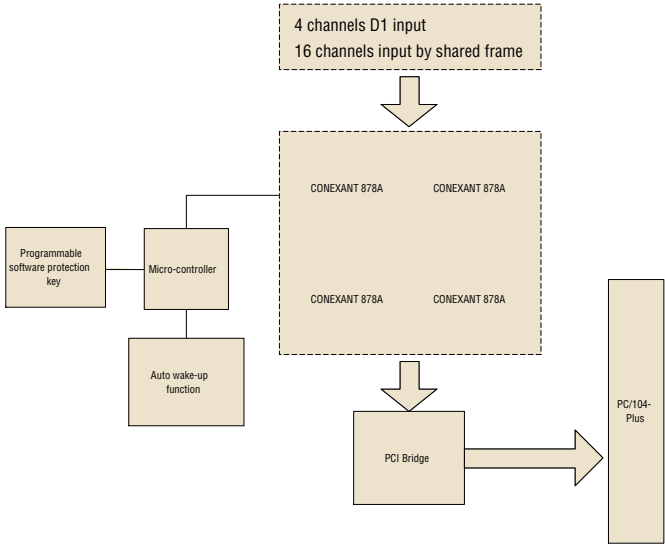- Programmable software protection key

CE FCC

Introduction

DVP-1020 is a 4 ~ 16 channel video input PC/104-Plus video capture module that supports up to D1 resolution with 120/100 total frame rate. DVP-1020 allows installation of up to 3 modules in one PC system by utilizing an onboard DIP switch setting that identifies card ID by LED indicators. DVP-1020 supports NTSC/PAL signals and digitalizes data to PC through PC/104-Plus interface. DVP-1020 also has a built-in watchdog timer to reset the system and prevent crashes when an unknown error occurs. DVP-1020 is also designed with a programmable software protection key for anonymous user software copy protection.
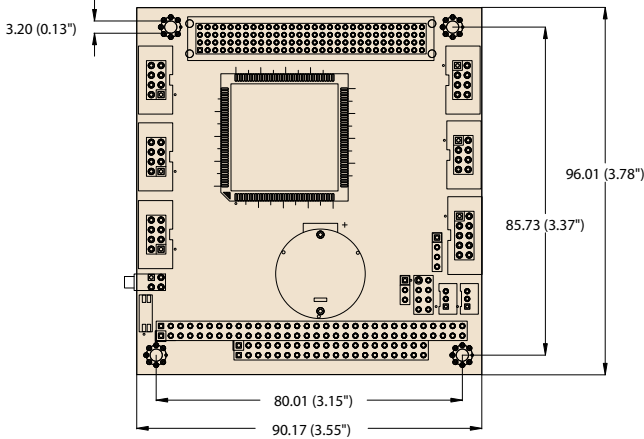
Specifications

		Operating	Non-operating
Video system	Video Standard	Composite for NTSC/PAL	
	Video Input	16 (BNC connector)	
	Capture Resolution	D1/VGA/QVGA/CIF	
	Selectable pixel density	8, 16, 24, and 32 bits per pixel	
	Total Frame Rate	120/100 fps at NTSC/PAL	
	Image Processing	Hardware adjustment of hue, contrast, saturation, and brightness	
	Video Output format	Multiple YCrCb, RGB and YUV planar formats supported	
Software Develop Kit	Operation System	Supports Microsoft Windows® XP and Win2K	
	DirectX Required	Version 9 or above	
	Demo Program	Complete demo program with C++ sample code for reference	
Hardware	Host interface	PC/104-Plus	
	Max. Card	3 modules only set by on-board DIP switch	
	EEPROM	128 bytes for programming	
	GPIO	8-bit TTL/CMOS level 3.3 V DIO	
	Power Consumption	+5 V DC input by PC/104-Plus bus, max. 800 mA	
Environment		Operating	Non-operating
	Temperature	-0 ~ 60 °C	-20 ~ 70 °C
	Dimensions (W x L)	90.17 x 96.01 mm (3.55" x 3.78")	

Block Diagram

4 channels D1 input
16 channels input by shared frame

CONEXANT 878A CONEXANT 878A

CONEXANT 878A CONEXANT 878A

Programmable software protection key

Micro-controller

Auto wake-up function

PCI Bridge

PC/104-Plus

Dimensions

3.20 (0.13")

96.01 (3.78")

85.73 (3.37")

80.01 (3.15")

90.17 (3.55")

Unit: mm (inch)

Packing List

Part Number	Description	Quantity
9696P10200	DVP-1020 PC/104-Plus video capture module	x 1
2062102000	Utility CD	x 1
1700000575	Standby power wire	x 1
1703020303	Connection wire for WDT	x 1
1703020303	Connection wire for power switch	x 1
1700000860	Wire for video input	x 4
9696NC2000	BNC board	x 4

Ordering Information

Part Number	Description
DVP-1020	4 ~16 Channel PC/104-Plus Video Capture Module