

MPX-24794S

Features:

- SPI Master mode 0, 1, 2, 3 with 1 MHz clock frequency
- Selectable SPI setup time and hold time
- Connects up to five SPI slave devices (CS0#, CS1#, CS2#, CS3#, CS4#)
- 16-bit counter at 1 MHz clock rate with control and output pins
- 16 bits programmable GPIO interface
- I2C master supports standard mode of 100 kbps data rate
- USB 2.0 Full Speed
- Includes SPI and I2C EEPROM APIs



Specifications:

Function		Function	
Processor	Cypress CY8C24794 M8C processor at 24 MHz -40°C to +85°C temperature range	Counter	16-bit general purpose counter at 1 MHz Programmable compare type Programmable interrupt type Programmable pulse width Automatic reload of period on terminal count Provides compare output pin Provides terminal count pin Input enables/disables continuous counter operation
USB	USB 2.0 full speed (12 Mbps) 0.25% accuracy	GPIO	Configurable 16 general purpose I/O pins 25-mA sink and 10-mA source on all GPIOs Resistive Pull Down drive mode High Impedance drive mode Resistive Pull Up drive mode Open Drain, Drives High mode Strong drive mode, Slow Strong drive mode High Impedance Analog drive mode Open Drain, Drives Low mode Easy to work with ADP-GPIO4I4O5V Easy to work with ADP-GPION8I5V
SPI	Serial Peripheral Interconnect (SPI) Master Supports SPI modes 0, 1, 2, 3 Configurable MSB/LSB first order Selectable CS# set up time and hold time Selectable byte-to-byte transaction gap Supports up to 5 SPI slave devices		
I2C	I2C master operations Supports standard mode of 100 kbps data rate 4.7K ohms pull-up resistor installed		
EEPROM	Includes EEPROM programming API Compatible to Atmel SPI and I2C EEPROM		

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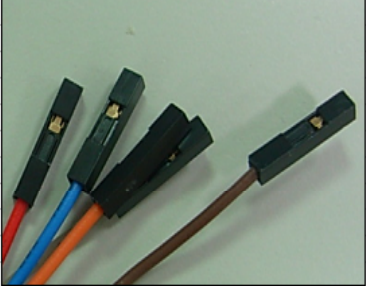
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Cable PIN Layout:


Pin	Signal	Pin	Signal
1	GND	11	CS3#
2	GND	12	CS4#
3	PWR+5V	13	CNTR_EN
4	PWR+5V	14	CNTR_CO
5	MOSI	15	Port_2_2
6	MISO	16	CNTR_TO
7	SCLK	17	WP#
8	CS0#	18	I2Cm_SDA
9	CS1#	19	HOLD#
10	CS2#	20	I2Cm_SCL



Note: 2.54mm pitch test pins

PORT 3 (Black)


Pin	Signal
1	GND
2	GND
3	P3_0
4	P3_4
5	P3_1
6	P3_5
7	P3_2
8	P3_6
9	P3_3
10	P3_7
11	+V5
12	N/C



1	3	5	7	9	11
2	4	6	8	10	12

PORT 4 (Blue)

Pin	Signal
1	GND
2	GND
3	P4_0
4	P4_4
5	P4_1
6	P4_5
7	P4_2
8	P4_6
9	P4_3
10	P4_7
11	+V5
12	N/C



1	3	5	7	9	11
2	4	6	8	10	12

Packing List

- 1 x MPX-24794S Card
- 1 x Utility Disc
- 1 x MPX24749S cable
- Up to two ADP-GPION4I4O5V signals converter cards (optional)
- Up to two ADP-GPION8I5V isolation cards (optional)

Ordering Code

MPX-24794S	Commell USB-SPI with GPIO add-on card
OALUSB-H4-1	MPX-24794S USB Type "A" cable
ADP-GPION4I4O5V	Commell GPIO 4I4O signals converter card
ADP-GPION8I5V	Commell GPIO 8 X photo-couple input isolation card

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