

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

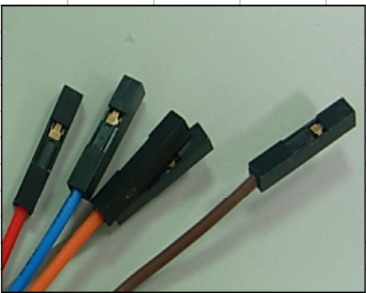


Specifications:

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

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