

Features:



- Hand-held portable, 153(L) x 93(W) x 23(H) mm.
- Provide GPIO interface.
- Open source hardware interface to support expansion modules.
- Provide software interface protocol for secondary development.
- USB 2.0 interface, USB powered with no additional power required.
- Free Windows PC software for both oscilloscope and data logger.
- Available oscilloscope software on Android Mobile Phone.
- Large screen display and convenience of operating PC software.
- Support Serial bus decoding.

APPLICATIONS:

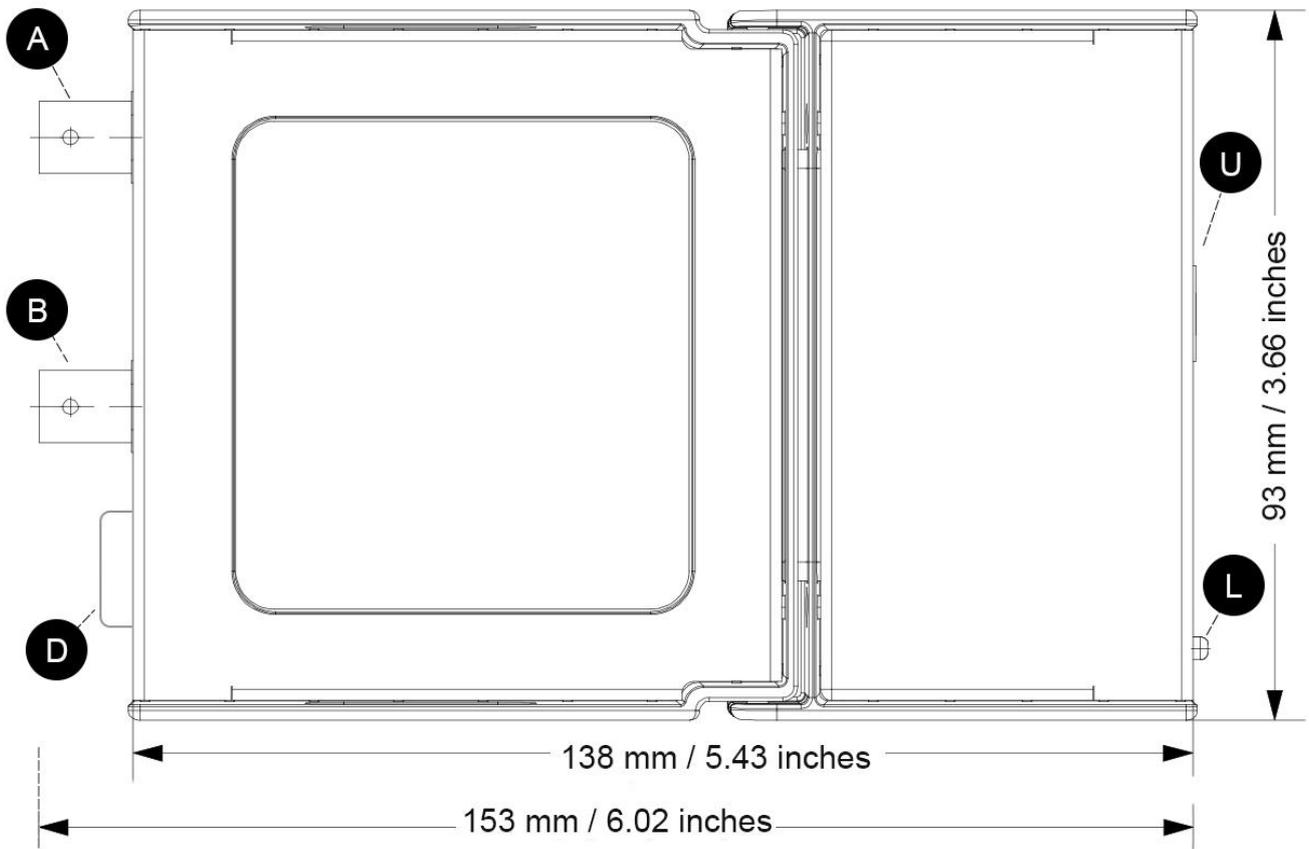
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- ✓ *General-purpose and precision testing.*
 - ✓ *Embedded in teaching equipment or industrial testing equipment for use.*
 - ✓ *Powersupply ripple and noise detection.*
 - ✓ *Multi-sensor systems and Serial bus decoding.*
 - ✓ *Secondary development of analog data acquisition and DIO control.*
 - ✓ *Current/Voltage recording and analysis System for Solar Power Supply and Lighting System.*
 - ✓ *Diagnosis device for filed engineers.*
 - ✓ *Basic equipment for DIY makers to develop their own modules.*
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noise (peak to peak voltage):	50 mv/div	3.4 mv	4.8 mv	5.8 mv		
	100 mv/div	6.4 mv	7.2 mv	8 mv		
	200 mv/div	21 mv	19.4 mv	22 mv		
	500 mv/div	32 mv	34.8 mv	38.8 mv		
	1 v/div	101 mv	87.8 mv	88.2 mv		
● GPIO:	4 I/O		3 I/O		3 I/O	
● Memory depth (byte /ch):	512	≤1 us/div	64k	≤100 ms/div	64k	≤100 ms/div
	1k	4 us/div				
	2k	20 us/div				
	32k	0.2 ms ~ 5 ms /div				
	64k	10 ms /div				
	256k	100 ms /div	208k	200 ms/div	258k	200 ms/div
	512k	200 ms /div	512k	500 ms/div	645k	500 ms/div
	1M	0.5 s/div	1M	1 s/div	1M	1 s/div
	2M	1 s/div	2M	2 s/div	2M	2 s/div
	5M	2 s/div				
● Trigger type:	Software		Hardware		Hardware	
● Trigger source:	Channel A/B		Channel A		Channel A	
● Power consumption:	5 v (238~253) mA		5 v (324~355) mA		5 v (248~279) mA	
● Protocols decoding:	/		UART/RS-232, I ² C		UART/RS-232, I ² C	
	OSC48x		OSC80x		OSCA02 / OSC2002	

AT A GLANCE

Model:	OSC48x	OSC80x	OSCA02	OSC2002
Input channels:	2	2	2	2
Maximum sampling rate (S/s):	50M	80M	100M	1G
Bandwidth (-3 dB):	20M Hz	25M Hz	35M Hz	50M Hz
FFT:	✓	✓	✓	✓
Data logger:	✓	✓	✓	✓
I/O extension:	✓	✓	✓	✓
Serial bus decoding:	✗	✓	✓	✓
Hardware trigger:	✗	✓	✓	✓
Ext trigger module support:::	✗	✗	✓	✓
Signal generator module support:	✓	✗	✗	✗
Logic analyzer module support:	✗	✓	✓	✓

INTERFACES:



	Description:	
A	Input channel A.	
B	Input channel B.	
L	Power LED (red), Status LED (green).	
U	USB 2.0 interface, Type B female.	
	DB15 interface for expansion modules.	
	OSC48x	OSC80x/OSCA02/OSC2002
D	<p>6: 1.5 VPP 1K HZ</p> <p>1: NC — 11: NC 2: IO1 — 12: 3.3V 8: DGND 3: IO2 — 13: -5V 9: IO4 4: IO3 — 14: 5V 5: Ain — 15: AGND</p>	<p>6: 1.5 VPP 1K HZ</p> <p>1: NC — 11: NC 2: IO1 — 12: 3.3V 8: DGND 3: IO2 — 13: -5V 4: IO3 — 14: 5V 5: Ain — 15: AGND</p>

Accessories:

type	quantity	model	details	
Passive voltage probe, 60 MHz x1/x10	2	P2060	10x: 60M Hz,10M Ω ,600 V CAT II	
			1x: 6M Hz,1M Ω ,300 V CAT II	
USB cable	1	U2100	USB 2.0 Printer Cable. Type A Male to B Male.	

Optional expansion modules:

type	model	interface	Host device	details
Signal generator module	S01	DB15	OSC482	1 channel, Sine wave, Triangle wave, Square wave.1 Hz ~ 13M Hz(Sine wave) output frequency range. 48M sampling rate.
Logic analyzer module	L01	DB15	OSC802/OSCA02/OSC2002	4 channels, TTL level, consistent with the performance of the host device.

