GW INSTEK

MPO-2000 Multi-function Programmable Oscilloscope

GOOD WILL INSTRUMENT CO., LTD

5 in one

DSO、AWG、DMM、Power Supply
Spectrum Analysis

7 Innovative Function

Diversity Application

Beyond Your Imagination

MPO-2000 Multi-function Programmable Oscilloscope

Bandwidth	Record Length	Analog Channels	Sample Rate	Waveform Update Rate
Up to **200** MHz	**10** M points	**2** or **4**	Up to **1** GS/s	Up to **120,000** Waveform/s

Created by Stephen Wu

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Python is hot!

Why Python so popular?

8.2 million programmers

Estimated at least

Top **2** programming language

From 2019~2023

Beginner-Friendly

Versatility of Use

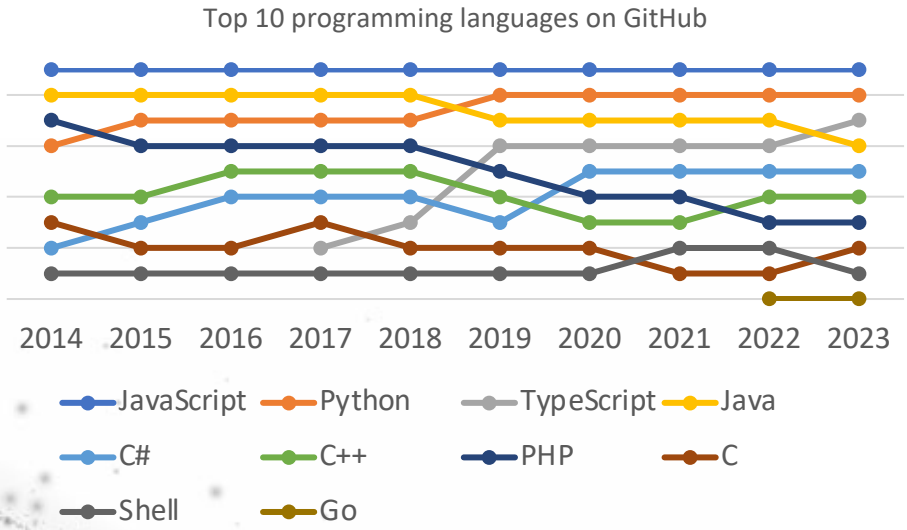
Libraries and Frameworks

Active and Supportive Community

Automation Made Easy

Python Works with the IoT

Efficient and Reliable



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Same result

Beginner-Friendly

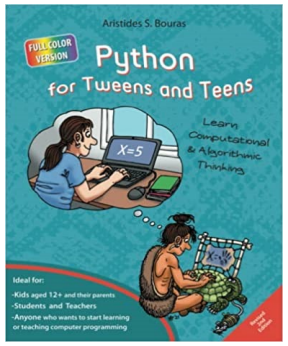
- Python example

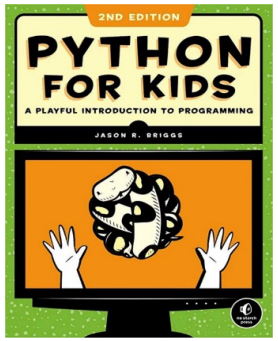
```python
# Python
my_list = [1, 2, 3, 4, 5]
print(my_list)
```

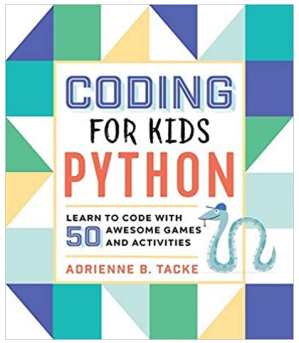
- C example

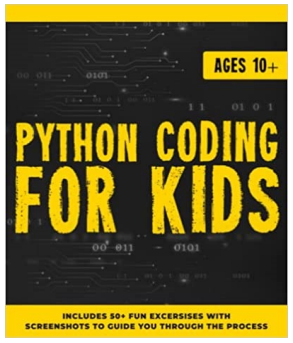
```c
#include <stdio.h>

int main() {
    // C
    int my_array[] = {1, 2, 3, 4, 5};
    int i;

    for (i = 0; i < 5; i++) {
        printf("%d ", my_array[i]);
    }

    return 0;
}
```

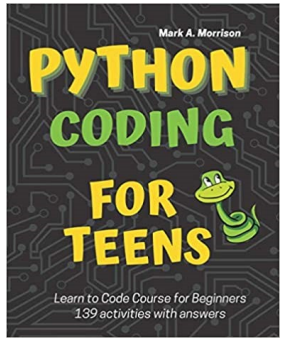
Beginner-Friendly

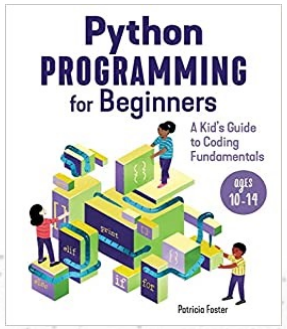


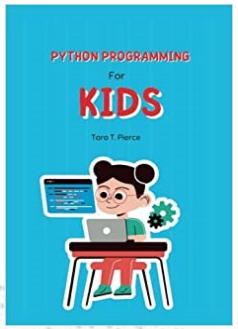


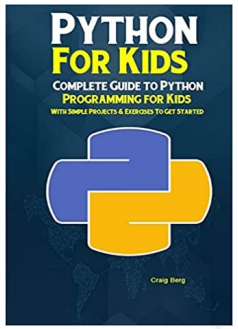


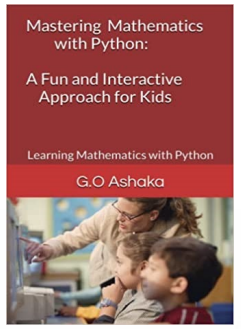


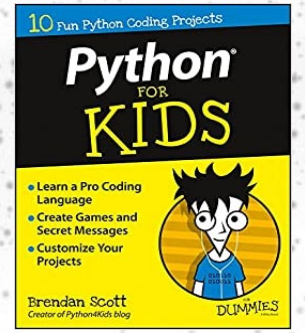


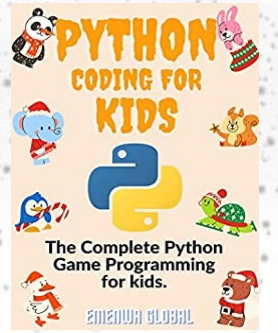


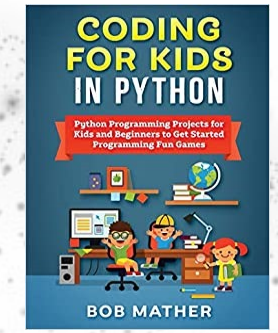


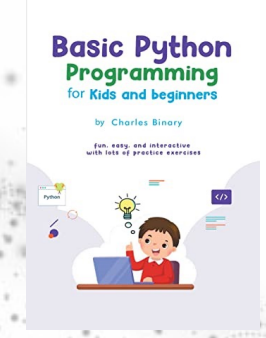


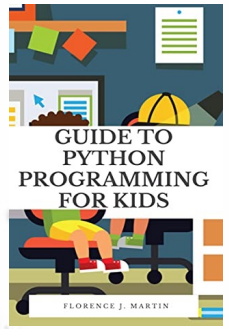












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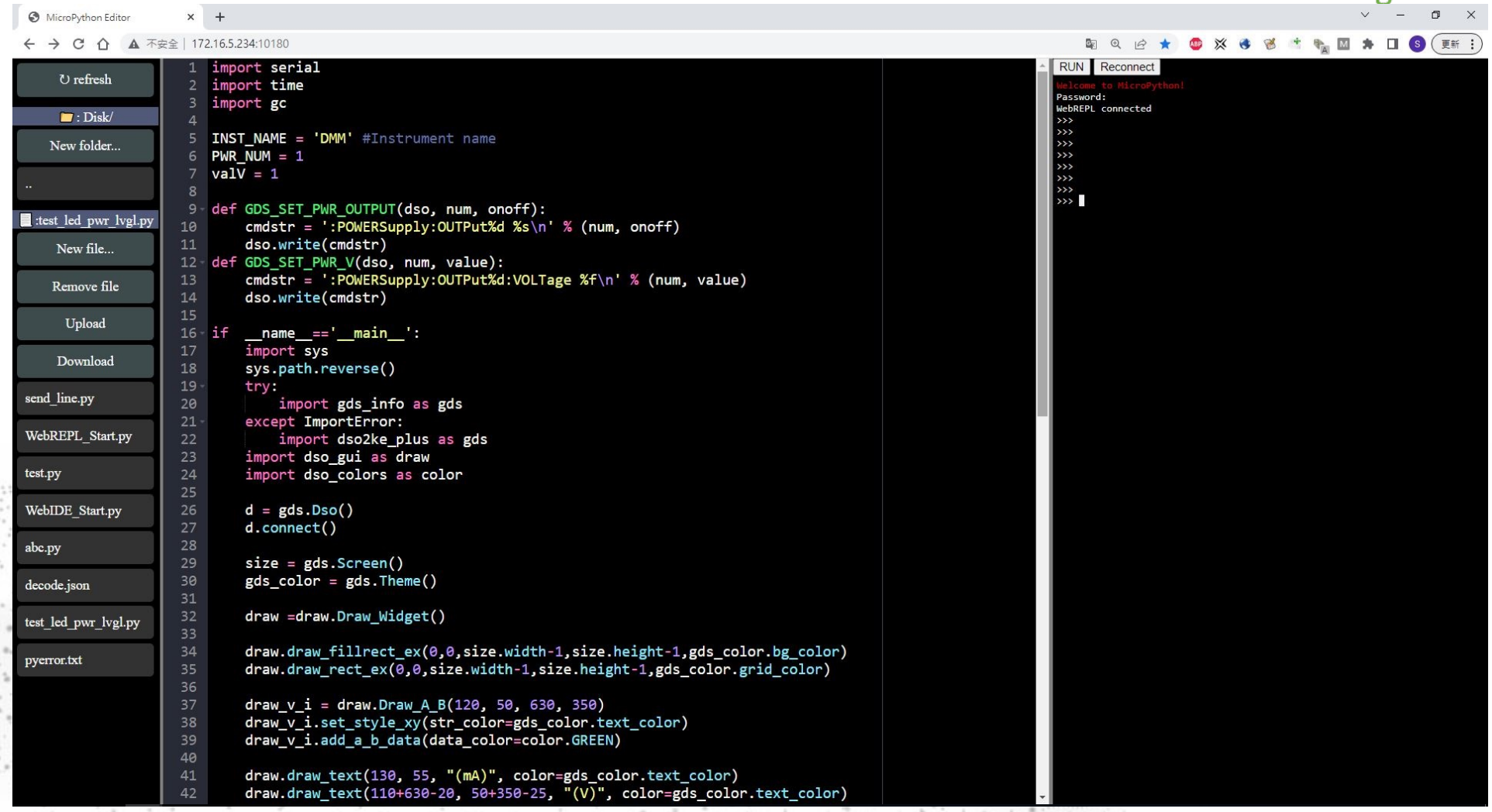
Web Edit

Beginner-Friendly



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On Screen Edit

Beginner-Friendly

bjt_char_curve_pro.py

```
            if drawcurve == True:
                draw_xy_curve(i)

            if save2csv == True:
                dso.hardcopy.hard_copy(wfmt='FCSV', mode='WAVEform')
                print('Save waveform to csv')
    except:
        dso.dsodraw.draw_poptext('Characteristic curve test failed!')
        pass

    dso.power.set_voltage(1, 1.0)
    dso.power.set_voltage(2, 1.0)
    dso.power.set_off(1)
    dso.power.set_off(2)

if __name__ == '__main__':
    os.chdir(sys.path[0])
    if not sys.implementation.name == "micropython":
       raise ValueError('This Demo can only be used on DSO')
    from dso_const import *
    import dso_gui
    import dso_colors as color
    try:
        import gds_info as gds
    except ImportError:
        import dso2kp as gds

    dso = gds.Dso()
```

Ctrl+S:Save Esc:Exit Line:142

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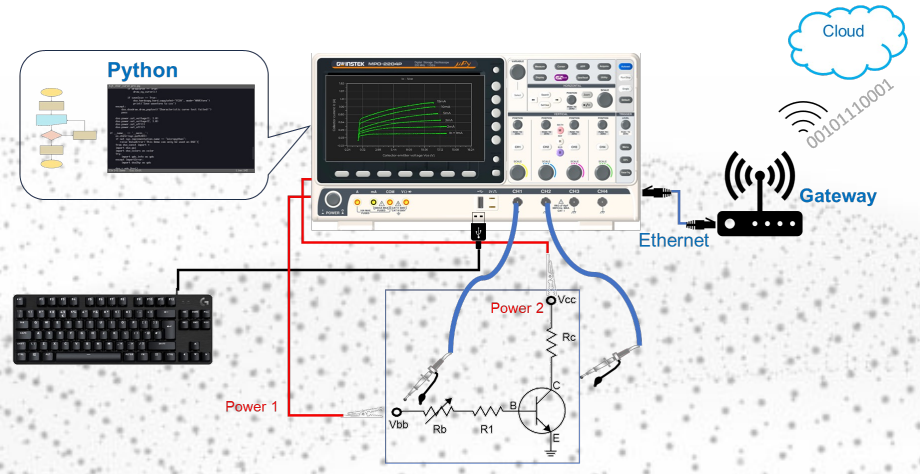
Saving time & cost

Automation Made Easy

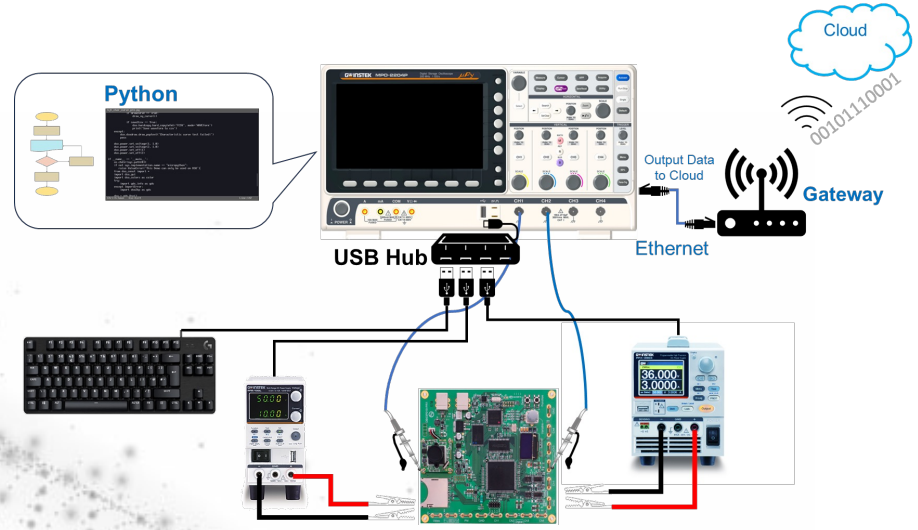
Time is Money

Simplify routine or complex measurement tasks
Stand alone auto-measurement



Money is Money

You don’t need PLC or PC to configure test system.
As Console：Control other instruments



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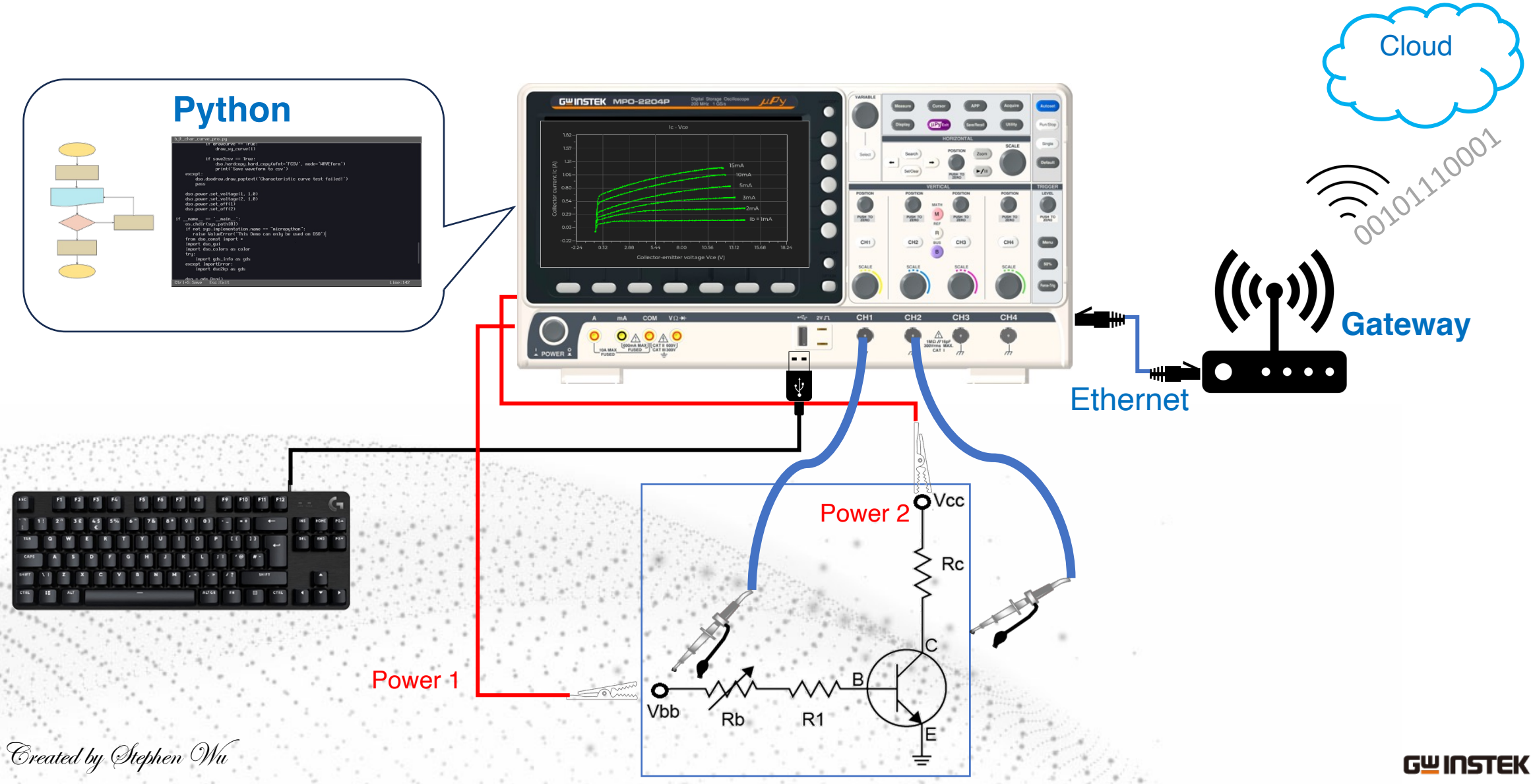
Python example：Stand Along Auto-measurement



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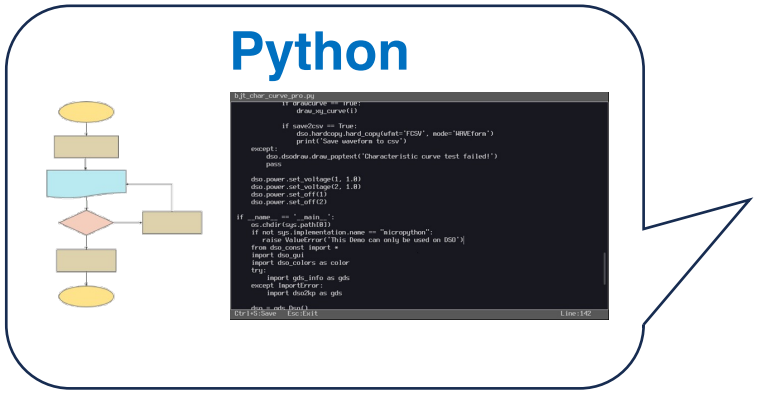
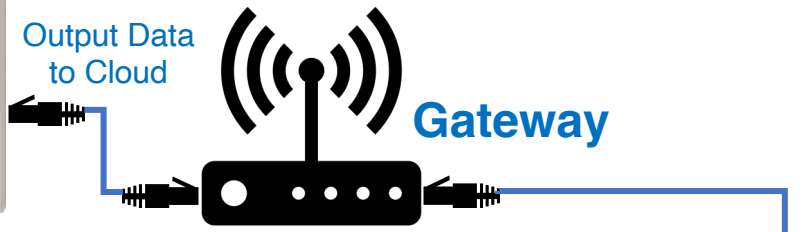
Python example：As Console

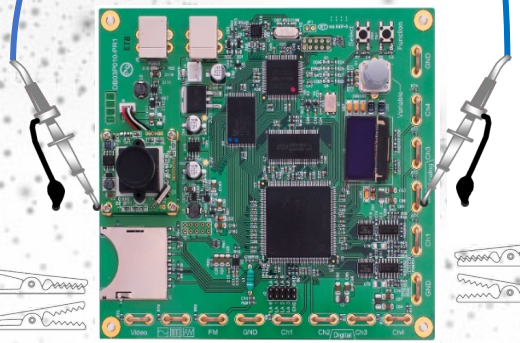


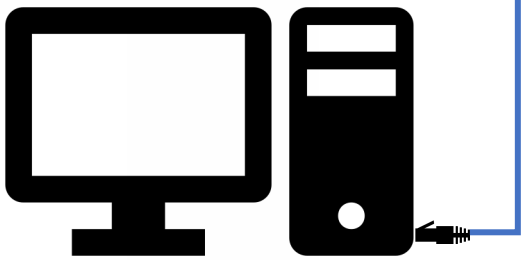
Output Data to Cloud



Ethernet

USB Hub





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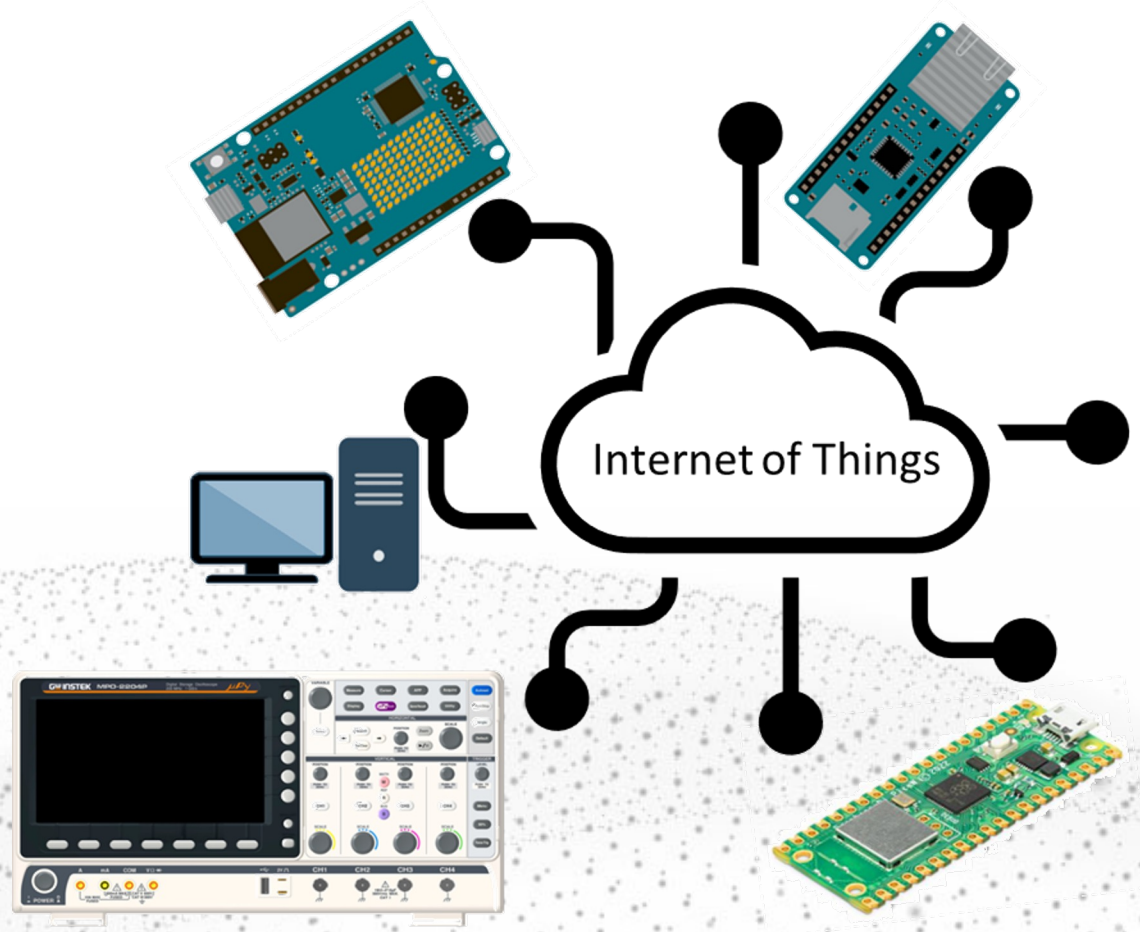
Data availability

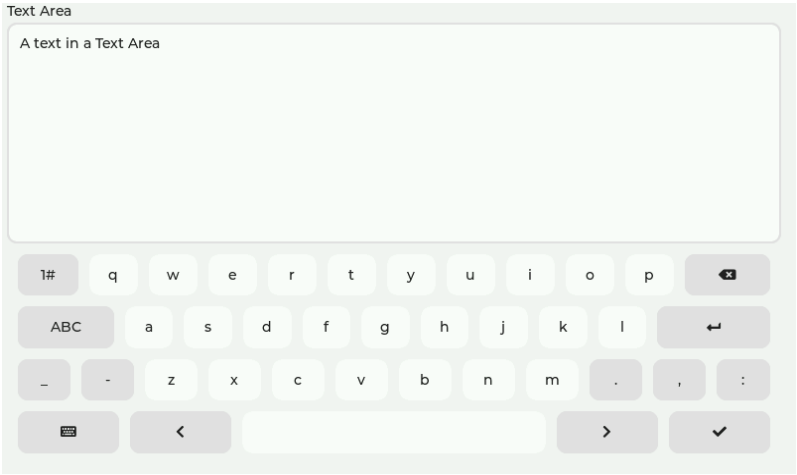
Python Works with the IoT



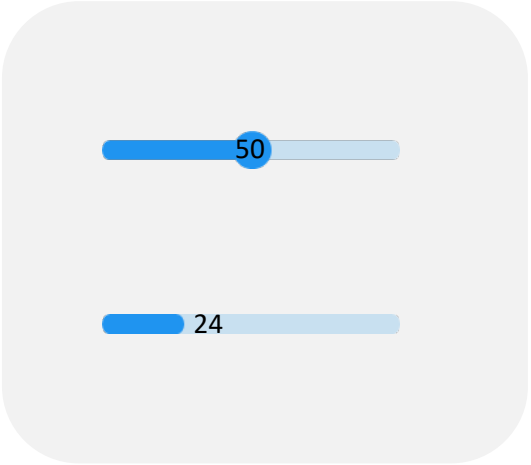
- Message Queuing Telemetry Transport is supported which including the "Publish" and "Subscribe" pattern.
  - Publish：submit measurement data to cloud.
  - Subscribe：Cloud remote control MPO.
- Data availability
  - IoT applications
  - IoT lab. course

Python GUI (Graphical User Interface)

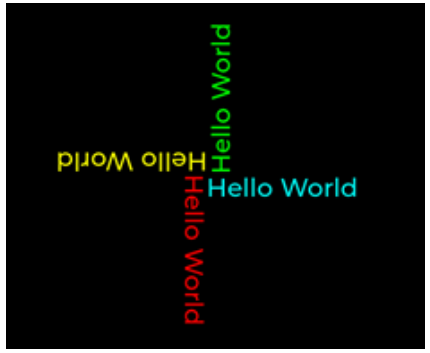
Libraries and Frameworks



Text Input



Slider



Message

Lab. Asset	Oscilloscope	DMM	Function Generator
Quantity	25	25	25
Unit Price	1000	200	400
Total	25000	5000	10000

Table

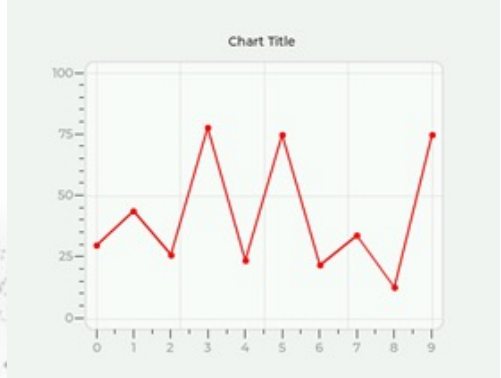
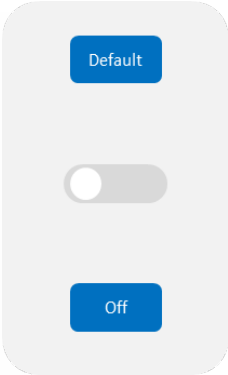


Chart & Scale



Buttons

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5 in one

DSO、AWG、DMM、Power Supply
Spectrum Analysis

7 Innovative Function

Diversity Application

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MPO-2000 Multi-function Programmable Oscilloscope

Bandwidth	Record Length	Analog Channels	Sample Rate	Waveform Update Rate
Up to **200** MHz	**10** M points	**2** or **4**	Up to **1** GS/s	Up to **120,000** Waveform/s

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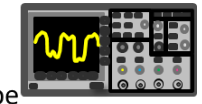
5 preload Python APPs

1. LC Oscillator Circuit Frequency and Temperature Characteristics Curve
2. Barcode Scanner Measurement Applications
3. BJT Output Characteristics Curve
4. Fuse Endurance Test
5. LED Forward Voltage Characteristics Curve

5 in one

DSO、AWG、DMM、Power Supply Spectrum Analysis

Digital
Storage
Oscilloscope

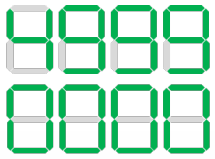


100MHz(Basic)
200MHz(Professional)

Arbitrary
Waveform
Generator

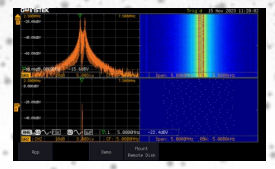
2 CH，25MHz
200MS/s，14 bits

DC Power Supply
2 CH，1V~5V/1A;
5V~10V/0.5A; 10V~**20V**/0.25A



Digital Multi-Meter

5000 counts
50mV, 500mV,
5V, 50V, 500V,
1000V 6 ranges



Dual Channel Spectrum Analysis

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Same Channel cloud upgrade from Basic to Professional

MPO-2102B/2104B (Basic version)	MPO-2202P/2204P (Professional)
CAN-FD/USB 2.0 (FS) Decode	Support USB CDC device control (E.g. PSW/ PFR/PPX) Support Python GUI library Support USB Keyboard, mouse, scanner
	CAN-FD/USB 2.0(FS) Additional **FlexRay/USB-PD/ I²S** Decode
Program memory space：1M Python could access 1000 pts of waveform data length.	Program memory space：**20M** Python could access **100k** pts of waveform data length. **100 times** of Basic
Oscilloscope bandwidth：100MHz	Oscilloscope bandwidth：**200**MHz
Python API for DSO/SA/AWG/DMM/PWR Running above 5 preload Python APPs. Third-party Python APPs executable. Running Python source code (.py file) from internal disk or USB flash disk. Ethernet socket protocol Edit Method：Web or On-screen editor Could run Packaged USB CDC or GUI APPs	**Could Package Python program to MPO-Python APP** Python API for DSO/SA/AWG/DMM/PWR Running above 5 preload Python APPs. Third-party Python APPs executable. Running Python source code (.py file) from internal disk or USB flash disk. Ethernet socket protocol Edit Method：Web or On-screen editor Could run and **develop** Packaged USB CDC or GUI APPs

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5 preload Python APPs

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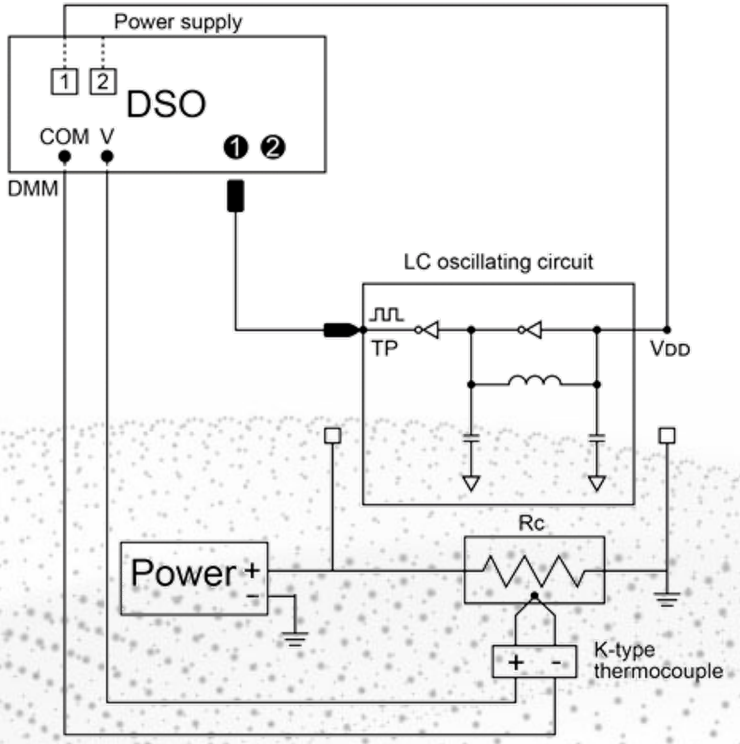
2. Barcode Scanner Measurement Applications
3. BJT Output Characteristics Curve
4. Fuse Endurance Test
5. LED Forward Voltage Characteristics Curve



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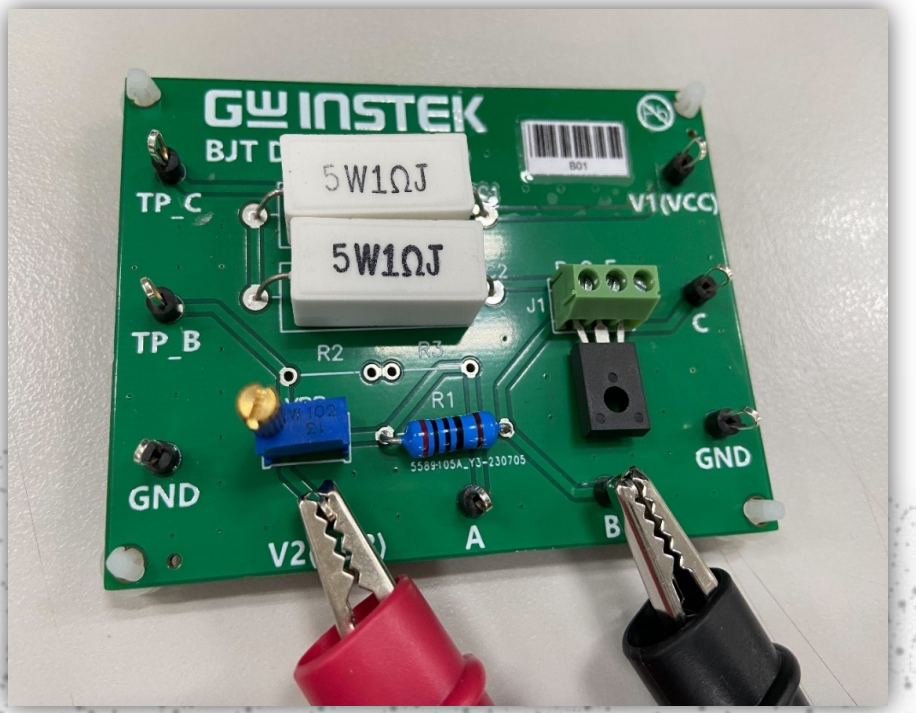

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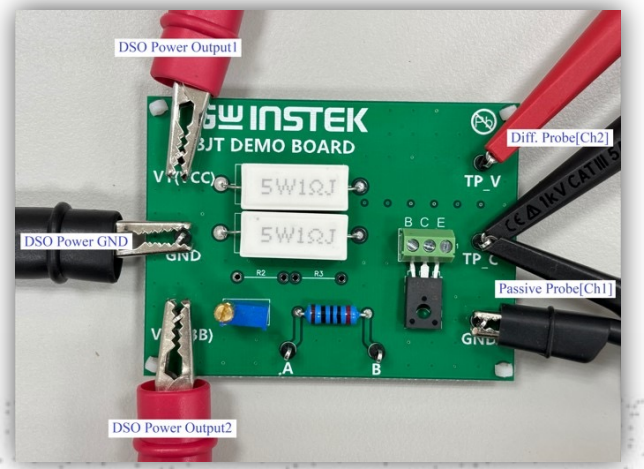
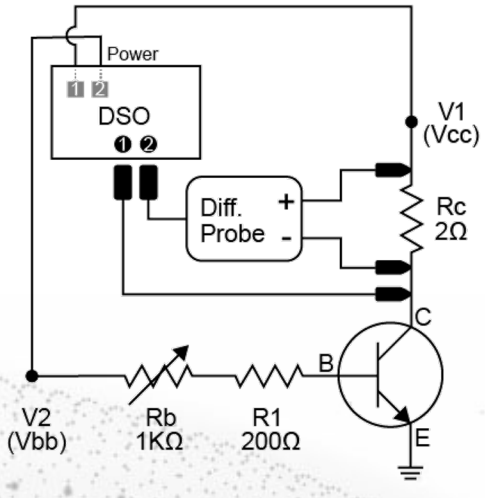
MPO2102B (Basic version) result
Using MPO internal two channel power supply





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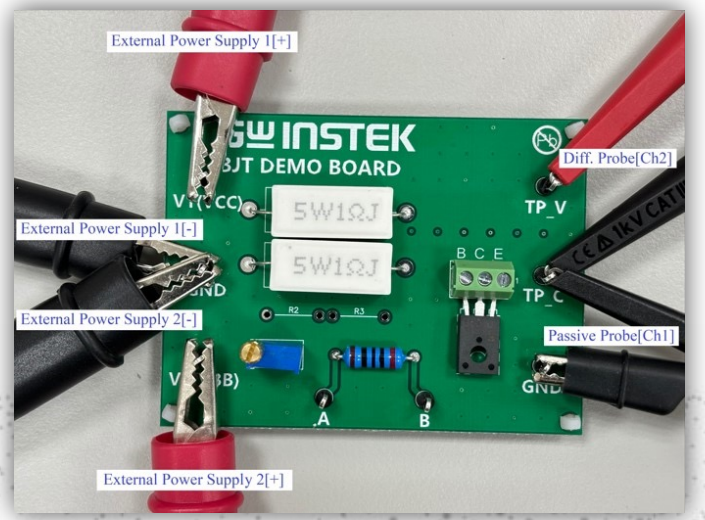
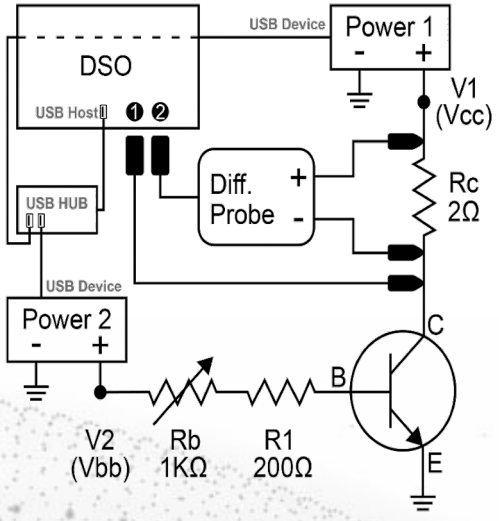
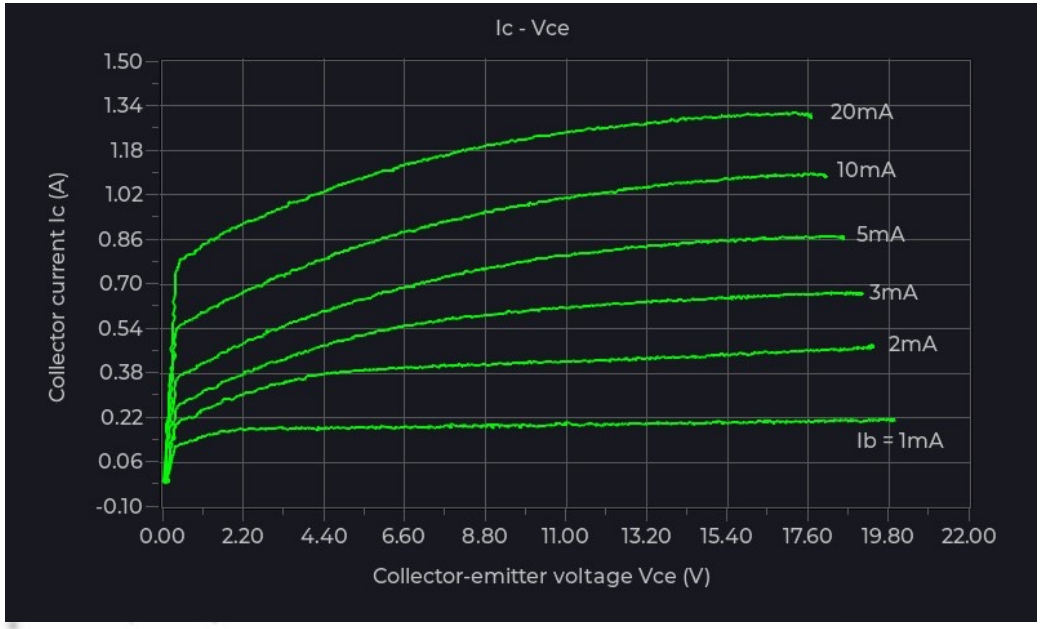
MPO2202P (Professional version) GUI library result
Using MPO control external power supply







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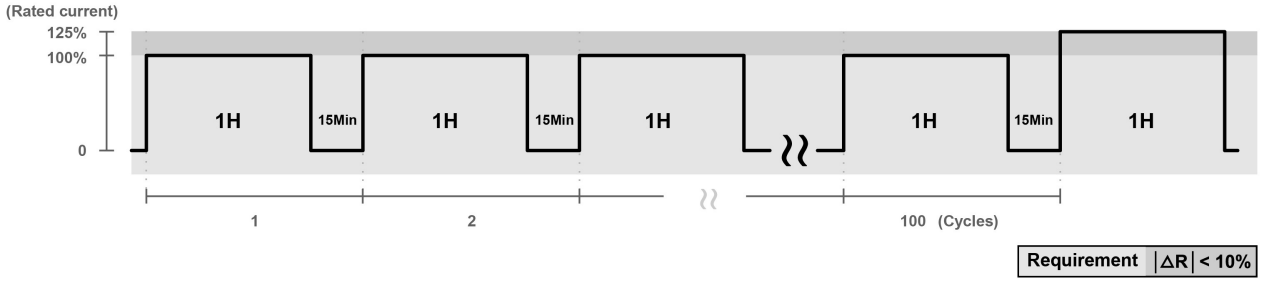
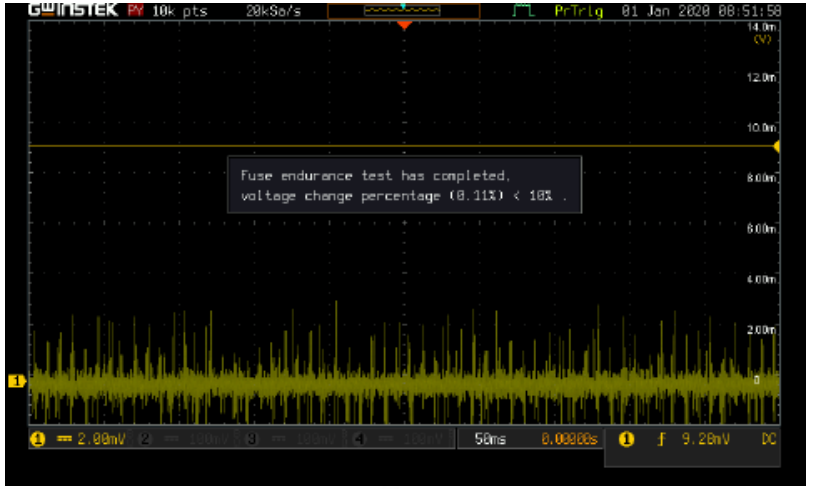


Requirement |ΔR| < 10%

Python Script Workflow

1. Load parameter configuration file.
2. Perform the initial setup for MPO-2000 and external power supply (e.g., PFR-100M).
3. Execute the fuse endurance testing script
4. Verify whether the voltage difference before and after the test procedure has changed by less than 10%.



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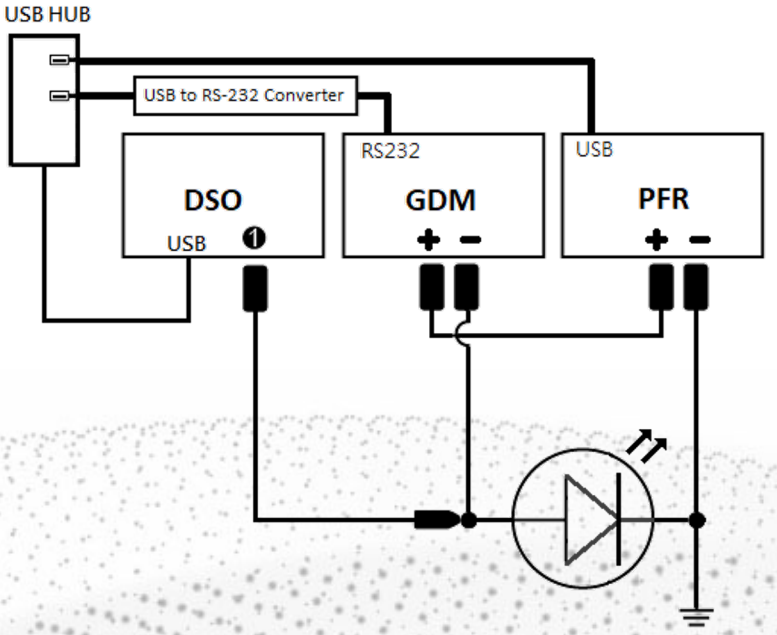

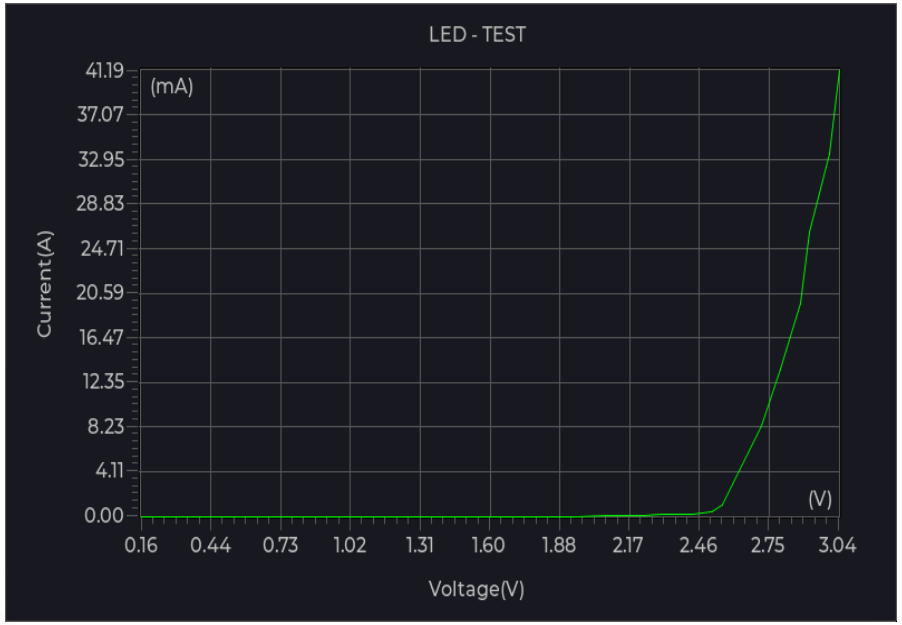

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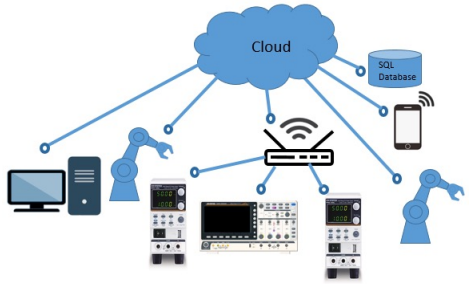
7 Innovative Function
Extend Diversity Application

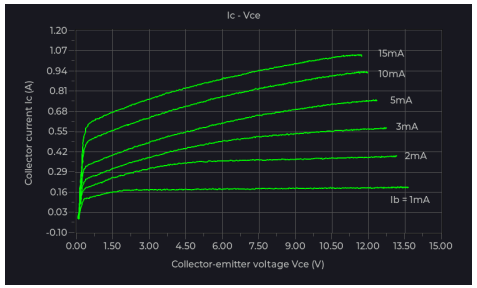
1 Python Script Execution

Maximum number of installable python APPs：
100 sets (including pre-installed Python APPs)
Running Python source code (.py file) from internal disk or USB flash disk.



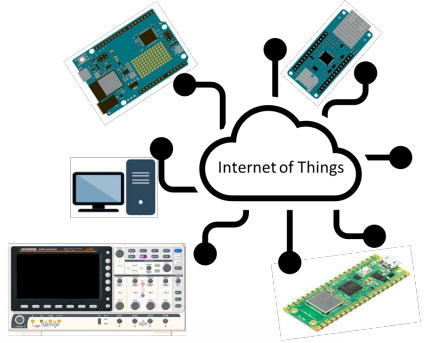
2 Component Tester I-V curve

Providing I-V characteristic curve (Curve Tracer) with readout scale.



3 Support MQTT Protocol

Message Queuing Telemetry Transport is supported which including the “Publish” and “Subscribe” pattern.

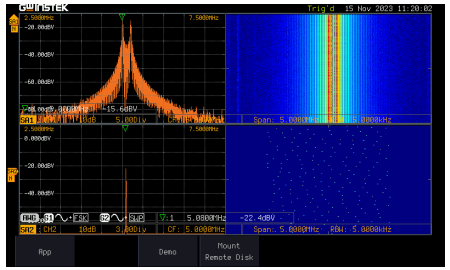


4 Serial Bus decode

Basic version：CAN-FD、USB2.0(Full Speed)
Professional version：Plus FlexRay、I^2S、USB-PD

5 Spectrogram

Dual Channel Spectrum Analysis with Spectrogram



6 Support Python GUI Library

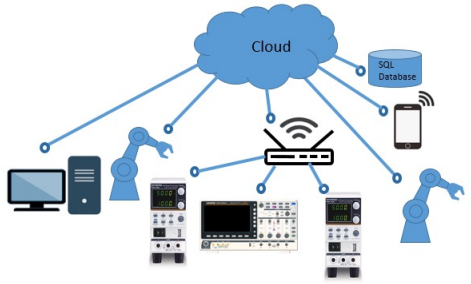
Professional version only

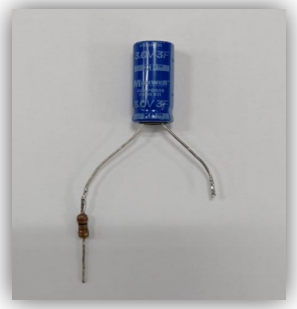
7 Support USB CDC-ACM, USB HID Protocol (Professional version only)

Created by Stephen Wu

1 Python Script Execution

Maximum number of installable python APPs：
100 sets (including pre-installed Python APPs)
Running Python source code (.py file) from internal disk or USB flash disk.





DUT: Maxwell 3.0V 3F super capacitor

```
Use Ctrl-D to exit, Ctrl-E for paste mode
>>> import math
>>> t=261
>>> r=100
>>> v=2.01
>>> e=3.3
>>> c=-t/(r*math.log(1-v/e))
>>> print(c)
2.778723389239062
```

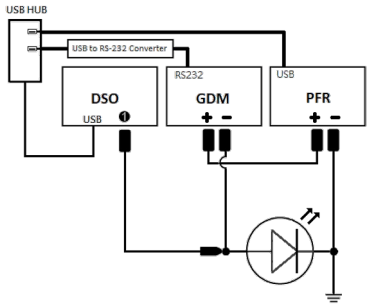
- Edge Computing – don’ t need local PC for advanced computing
  - Example： RC circuit charging formula

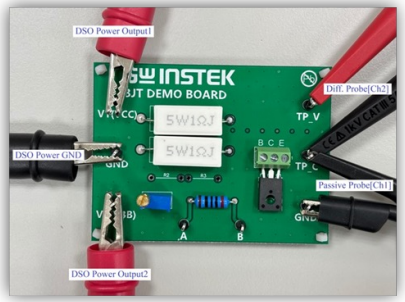
$$V(t) = E \times (1\text{-}e^{-t/(R\times C)})$$

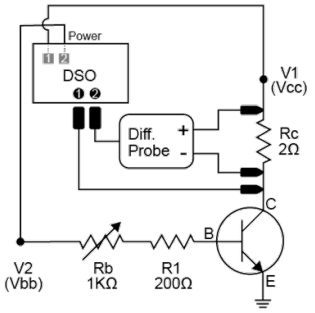
- Benefit：
  - Cost saving
  - Increasing productivities.

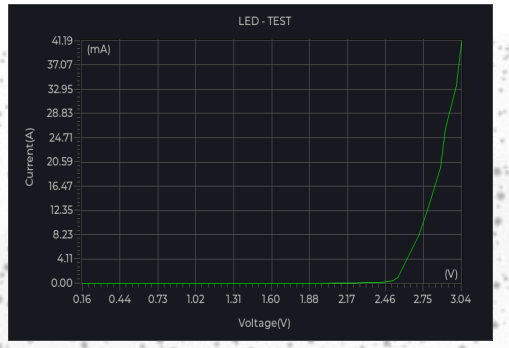
2 Component Tester I-V curve

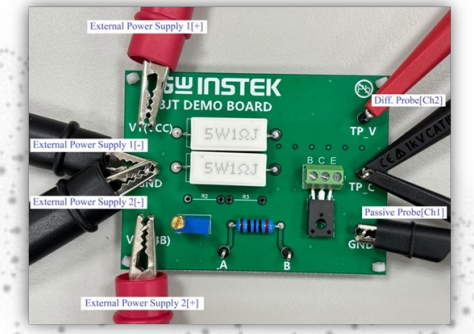
Providing I-V characteristic curve (Curve Tracer)
with readout scale.

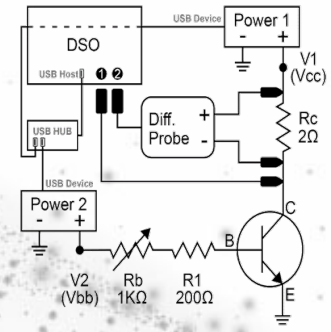


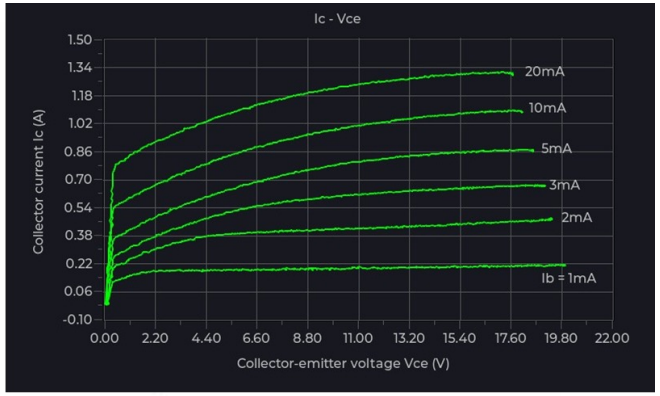












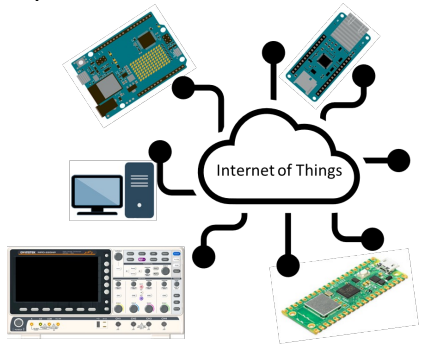
7 Innovative Function
Extend Diversity Application

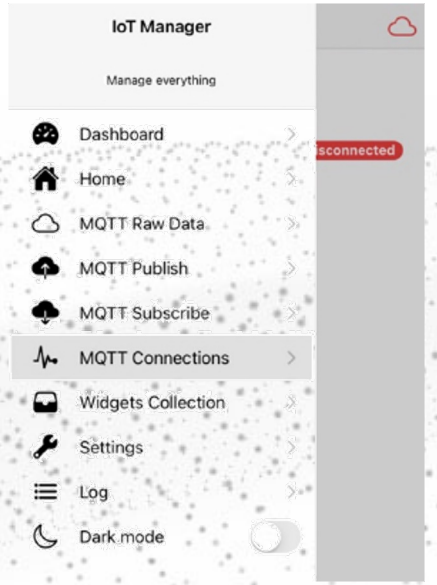
Created by Stephen Wu

GW INSTEK

3 Support MQTT Protocol

Message Queuing Telemetry Transport is supported which including the “Publish” and “Subscribe” pattern.





- Message Queuing Telemetry Transport is supported which including the “Publish” and “Subscribe” pattern.
  - Publish：submit measurement data to cloud.
  - Subscribe：Cloud remote control MPO.
- Data availability
  - IoT applications
  - IoT lab. course

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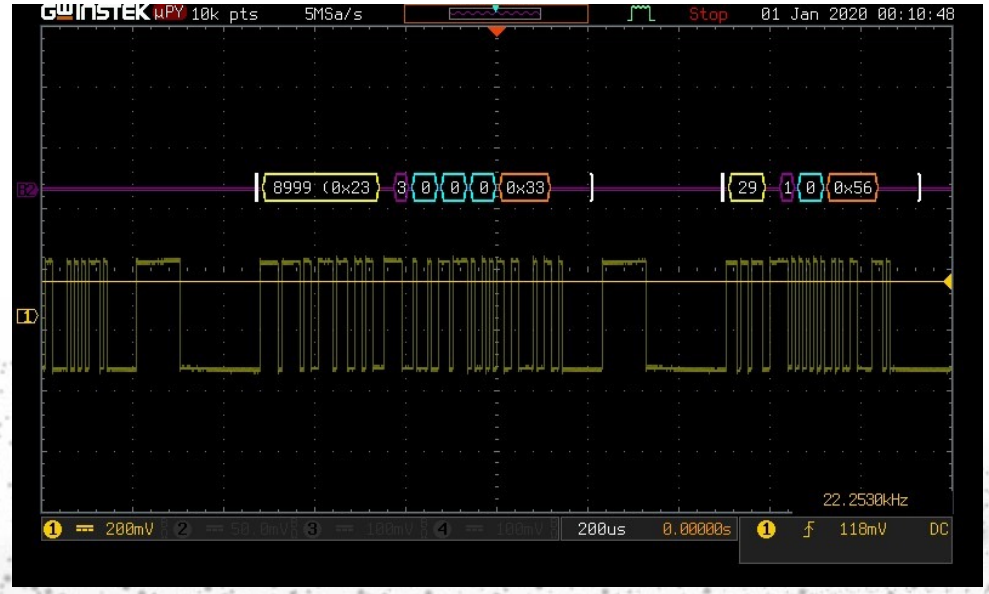
4 Serial Bus decode

Basic version：CAN-FD、USB2.0(Full Speed)
Professional version：Plus FlexRay、I²S、USB-PD

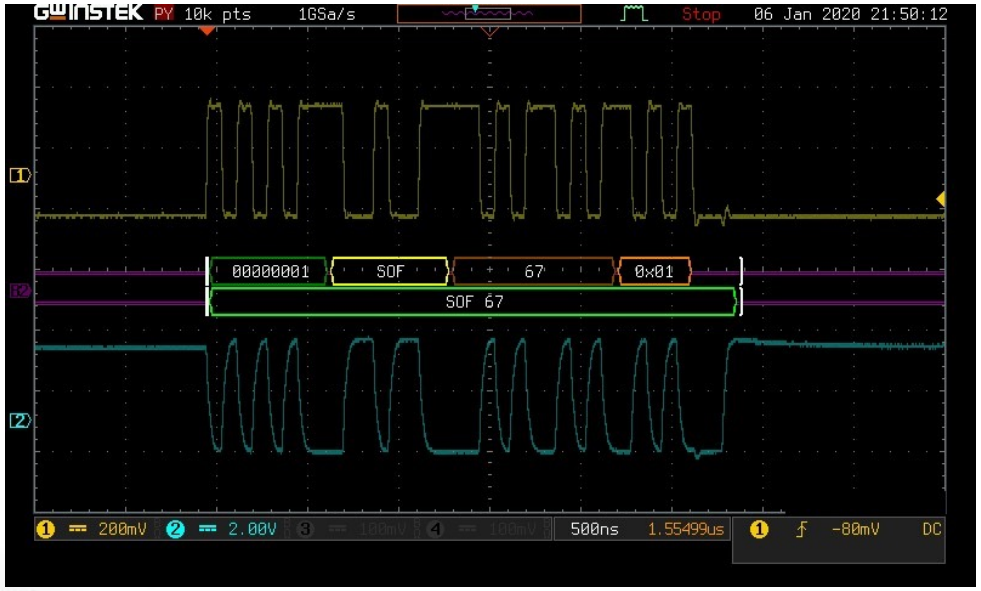
7 Innovative Function
Extend Diversity Application

CAN

CAN-FD decode result



USB2.0(Full Speed) decode result



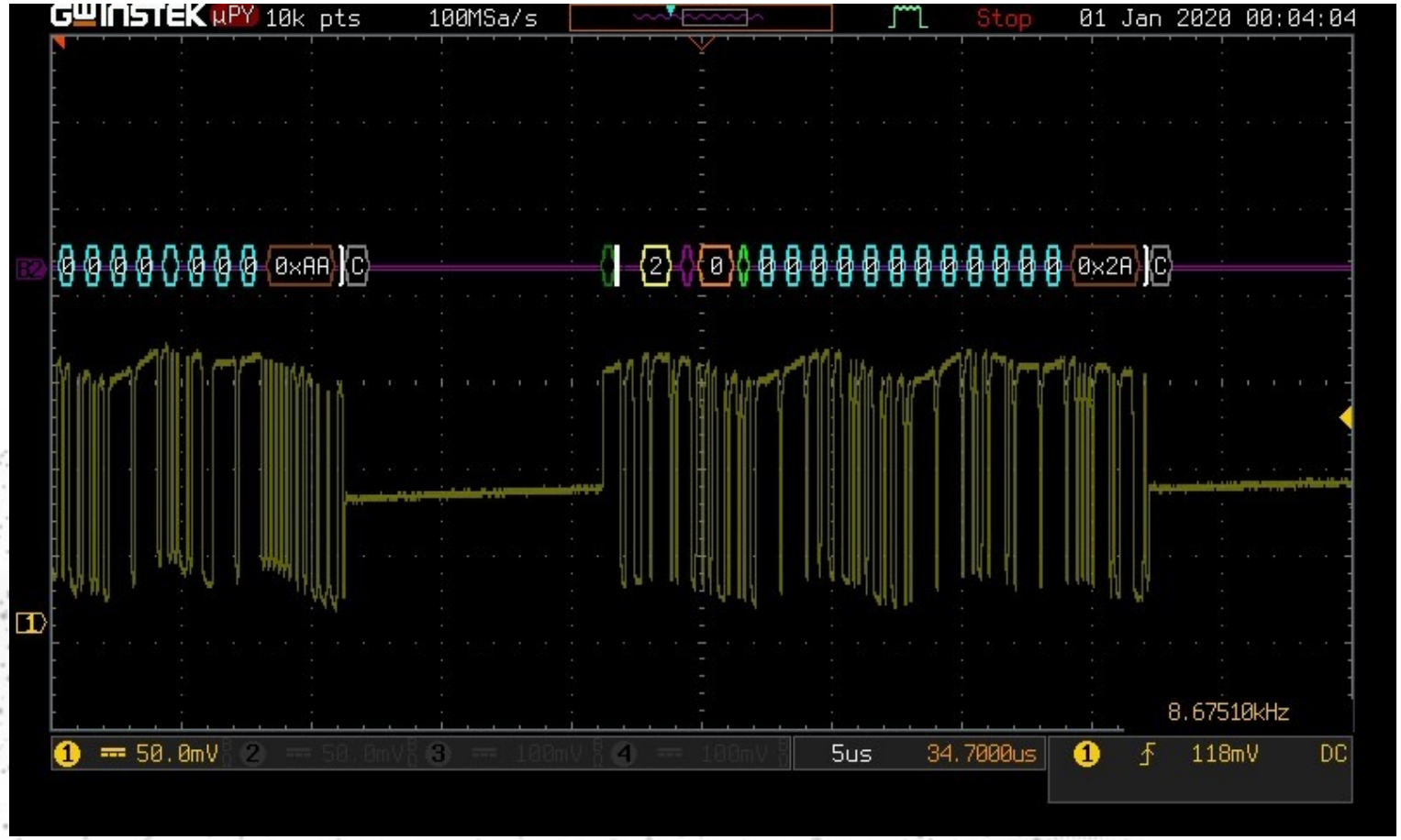
MPO-2000B/P Basic version & Professional version

Created by Stephen Wu

GW INSTEK

4 Serial Bus decode

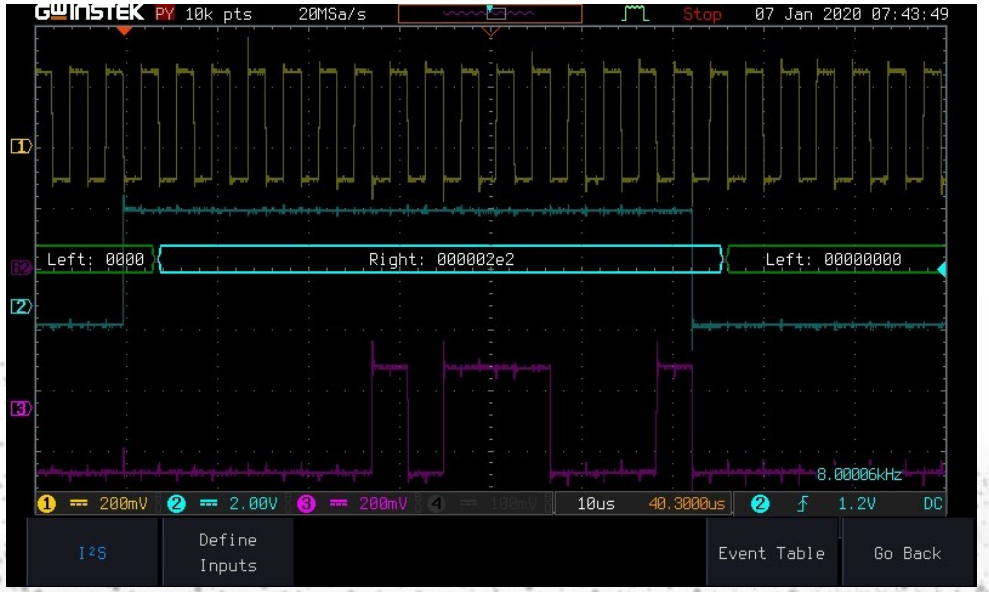
Basic version：CAN-FD、USB2.0(Full Speed)
Professional version：Plus FlexRay、I^2S、USB-PD



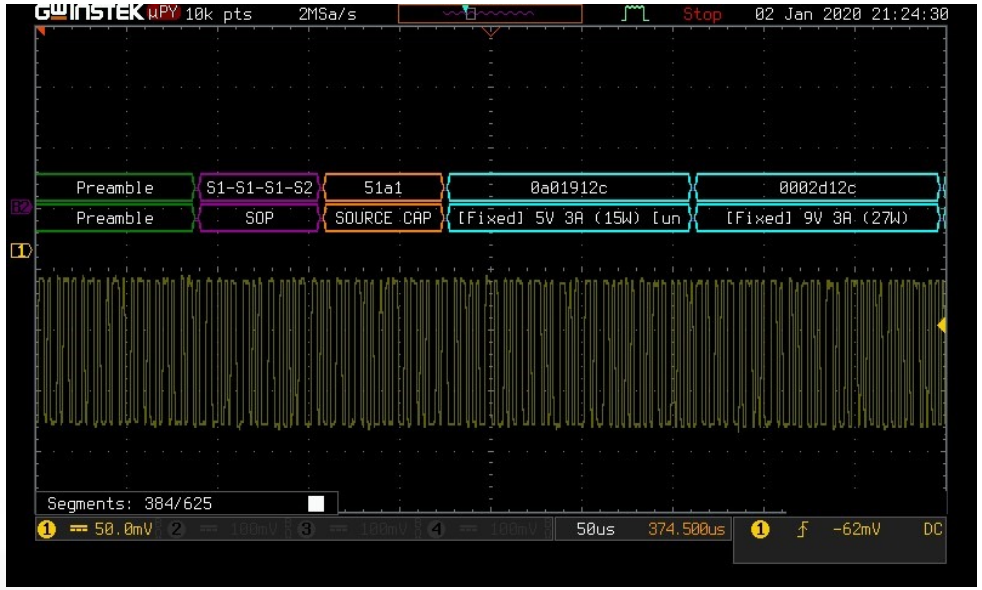
4 Serial Bus decode

Basic version：CAN-FD、USB2.0(Full Speed)
Professional version：Plus FlexRay、I²S、USB-PD

I²S decode result

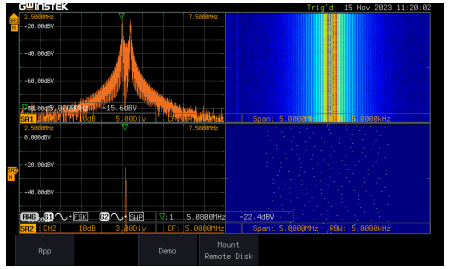


USB2.0 PD decode result

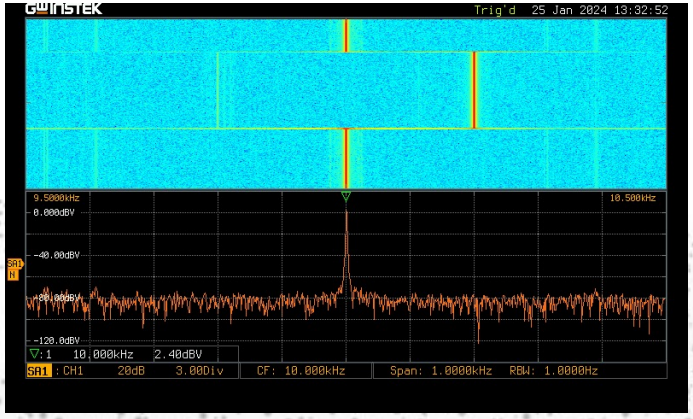


5 Spectrogram

Dual Channel Spectrum Analysis with Spectrogram



Modulation domain analysis (time v.s frequency)



- Span：1kHz~500MHz (Max.)
- Resolution Bandwidth：1Hz~500kHz (Max.)
- Applications
  - Modulation domain analysis (time v.s frequency)
  - Low Frequency ~ VHF wireless communication.
  - Audio Frequency or Supersonic detection
  - Vibration analysis (mechanical resonance)
- Near field antenna is optional

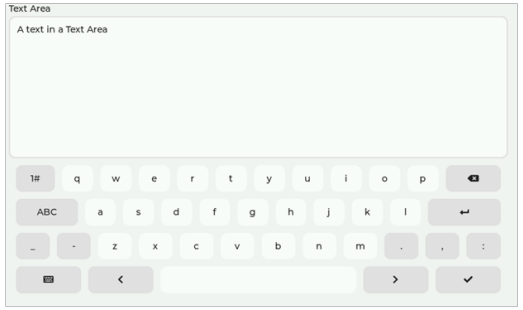
6 Support Python GUI Library

Professional version only

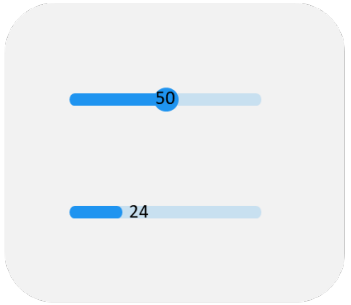
- ★ Professional version could develop and packaging Python GUI library.
- ★ Basic version support running Packaged Python GUI APP

7 Innovative Function

Extend Diversity Application



Text Input



Slider

Message

Lab. Asset	Oscilloscope	DMM	Function Generator
Quantity	25	25	25
Unit Price	1000	200	400
Total	25000	5000	10000

Table

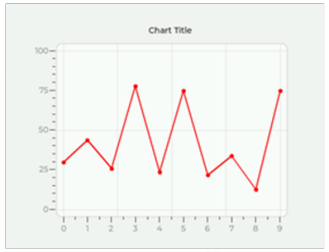
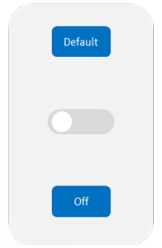


Chart & Scale



Buttons

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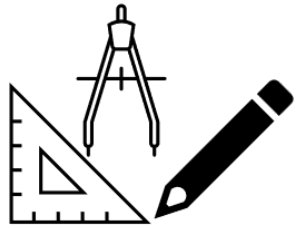
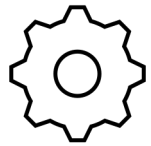
7 Support USB CDC-ACM, USB HID Protocol (Professional version only)

- USB Host could control other USB equipment (USB CDC-ACM protocol) like following products.
  - Power：PSW、PPX、PFR、ASR-3000
  - DMM：GDM-8261A
  - Load：PEL-3000AE
- USB Host could control USB peripherals (USB HID protocol equipment, like keyboard/mouse/bar code scanner)
- ★ Professional version could develop above USB scripts.
- ★ Basic version support running above USB Python APP



APPLICATIONS



Educational Application

- It Reduces The Time Required for Students to Conduct Electronic Experiments (Course packaging design is required).
- Measurement Automation Tutorial (Python Programming)
- MQTT Publisher / Subscriber (IoT Course)

Industrial Application

- Small-scale Automated Testing (Production Lines)
- Component Durability Testing (Quality Assurance)
- Engineers Automate Data Collection and Testing (R&D)

Specifications (1)

MPO-2000 series Specifications

	MPO-2102B	MPO-2104B	MPO-2202P	MPO-2204P
Channels	2ch+Ext	4ch	2ch+Ext	4ch
Bandwidth	DC~100MHz (-3dB)	DC~100MHz (-3dB)	DC~200MHz (-3dB)	DC~200MHz (-3dB)
Rise time(Calculated)	3.5ns	3.5ns	1.75ns	1.75ns
Bandwidth Limit	20MHz	20MHz	20M/100MHz	20M/100MHz
Python Script Execution (µPy)	Basic version	Basic version	Professional version	Professional version
Vertical Sensitivity				
Resolution	8 bit			
	1mV~10V/div			
Input Coupling	AC, DC, GND			
Input Impedance	1MΩ// 16pF approx.			
DC Gain Accuracy	±(3%)when 2mV/div or greater is selected			
	±(5%)when 1mV/div is selected;			
Polarity	Normal & Invert			
Maximum Input Voltage	300Vrms, CAT I			
Offset Position Range	1mV/div ~ 20mV/div : ±0.5V			
	50mV/div ~ 200mV/div : ±5V			
	500mV/div ~ 2V/div : ±25V			
	5V~10V/div : ±250V			
Waveform Signal Process	+, -, ×, ÷, FFT, User Defined Expression.			
	FFT: Spectral magnitude. Set FFT Vertical Scale to Linear RMS or dBV RMS, and FFT Window to Rectangular, Hamming, Hanning, or Blackman.			

Specifications (2)

Trigger	
Source	CH1 ,CH2, CH3*, CH4*, Line, EXT**
	* four channel models only **dual channel models only
Trigger Mode	Auto (supports Roll Mode for 100 ms/div and slower), Normal, Single
Trigger Type	Edge, Pulse Width(Glitch), Video, Pulse Runt, Rise & Fall(Slope), Alternate, time out, Event-Delay(1~65535 events), Time-Delay(Duration,4ns~10s), Bus (UART,I^2C, SPI*, CAN, LIN) *This bus decoder is only available on 4 channel models.
Holdoff range	4ns~10s
Coupling	AC,DC,LF rej. ,HF rej. ,Noise rej.
Sensitivity	1div
External Trigger	
Range	±15V
Sensitivity	DC ~ 100MHz Approx. 100mV
	100MHz ~ 200MHz Approx. 150mV
Input Impedance	1MΩ±3%~16pF
Horizontal	
Time base Range	1ns/div ~ 100s/div (1-2-5 increments)
	ROLL: 100ms/div ~ 100s/div
Pre-trigger	10 div maximum
Post-trigger	2,000,000 div maximum.
Time base Accuracy	±50 ppm over any ≥ 1 ms time interval
Real Time Sample Rate	Max.:1GSa/s (4ch models)
	Per channel 1GSa/s (2ch models)
Record Length	Max. 10M pts
Acquisition Mode	Normal, Average, Peak Detect, Single
Peak Detection	2ns (typical)
Average	selectable from 2 to 512

Specifications (3)

AWG Specifications	
Channels	2
Sample Rate	200 M sa/s
Vertical Resolution	14 bits
Max. Frequency	25 MHz
Waveforms	Arbitrary, Sine, Square, Pulse, Ramp, DC, Noise, Sinc, Gaussian, Lorentz, Exponential Rise, Exponential Fall, Haversine, Cardiac
Output Range	20 mVpp to 5 Vpp, HighZ;10 mVpp to 2.5 Vpp, 50 Ω
Output Resolution	1mV
Output Accuracy	2% (1 kHz)
Offset Range	±2.5V, High Z; ±1.25V, 50 Ω
Offset Resolution	1mV
Sine	
Frequency Range	100mHz to 25MHz
Flatness (relative to 1 kHz)	±0.5 dB<15MHz ±1dB 15MHz~25MHz
Harmonic Distortion	-40 dBc
Stray (Non-harmonic)	-40 dBc
Total Harmonic Distortion	1%
S/N Ratio	40 dB
Square/Pulse	
Frequency Range	100 mHz to 15MHz
Rise/Fall time	<15ns
Overshoot	<3%
Duty cycle	Square:50%; Pulse:0.4%~99.6%
Min. Pulse Width	30 ns
Jitter	500 ps
Ramp	
Frequency Range	100mHz~1MHz
Linearity	1%
Symmetry	0 to 100%

Specifications (4)

DMM Specifications

Reading	5,000 counts
	CAT II 600Vrms, CAT III 300Vrms
Voltage Input	Below are the basic conditions required to operate the DMM within specifications: *Calibration: Yearly. *Operating Temperature Specification: 18~28˚C (64.4~82.4˚F). *Relative humidity: 80%. (Non condensing) *Accuracy: ± (% of Reading + % of Range). *AC measurement are based on a 50% duty cycle.
DC VOLTAGE	50mV, 500mV, 5V, 50V, 500V, 1000V 6 ranges
Accuracy	50mV, 500mV, 5V, 50V, 500V, 1000V ±(0.1% +0.1%)
Input Impedance	10MΩ
DC CURRENT	50mA, 500mA, 10A 3 ranges
Accuracy	50mA - 500mA ±(0.5% + 0.1%) 10A ±(0.5% + 0.5%)
AC VOLTAGE	50mV, 500mV, 5V, 50V, 700V 5 ranges
Accuracy	50mV, 500mV, 5V, 50V, 700V ±(1.5% +1.5%) at 50Hz-1kHz
AC CURRENT	50mA, 500mA, 10A 3 ranges
Accuracy*	50mA, 500mA, ±(1.5% + 0.1%) at 50Hz-1kHz 10A ±(3% +0.5%) at 50Hz-1kHz * Measure range: >10mA
RESISTANCE	500Ω, 5kΩ, 50kΩ, 500kΩ, 5MΩ, 5 ranges
Accuracy*	500Ω, 5kΩ, 50kΩ, 500kΩ, 5MΩ: ±(0.3% + 0.01%) *Measure range: 50Ω to 5MΩ
Diode Test	Maximum forward voltage 1.5V, Open voltage 2.8V
Temperature (Thermocouple)*	Range: -50°C ~ + 1000°C Resolution: 0.1°C * Specifications do not include probe accuracy.
Continuity Beeper	15 Ω

Specifications (5)

Power supply Specifications

Output Channel	CH1 & CH2
Output range	1V~5V/1A; 5V~10V/0.5A; 10V~20V/0.25A* Peak current: 1A @250ms
Voltage Step	0.1V Continuously Adjustable
Output Voltage Accuracy	±3%
Ripple and Noise	50mVrms

Specifications (6)

Spectrum Analyzer Specifications

Frequency range	DC~500MHz Max., dual channel with spectrogram (based on Advanced FFT). Notice: Frequency which exceeds analog front end bandwidth is uncalibrated)
Span	1kHz~500MHz(Max.)
Resolution bandwidth	1Hz ~ 500kHz(Max.)
Reference level	-50 dBm to +40dBm in steps of 5dBm
Vertical units	dBV RMS; Linear RMS; dBm
Vertical position	-12divs to +12divs
Vertical scale	1dB/div to 20dB/div in a 1-2-5 Sequence
Display average noise level	1V/div < -50dBm, Avg : 16 100mV/div < -70dBm, Avg : 16 10mV/div < -90dBm, Avg : 16
Spurious response	2nd harmonic distortion< 40dBc 3rd harmonic distortion< 45dBc
Frequency domain trace types	Normal ; Max Hold ; Min Hold ; Average (2 ~ 512)
Detection methods	Sample ; +Peak ; -Peak ; Average
FFT Windows	FFT Factor : Hanning 1.44 Rectangular 0.89 Hamming 1.30 Blackman 1.68

Order information

- MPO-2204P 200MHz, 4-channel, Digital Storage Oscilloscope, Spectrum analyzer, dual channel 25MHz AWG, 5,000 counts DMM and power supply
- MPO-2202P 200MHz, 2-channel, Digital Storage Oscilloscope, Spectrum analyzer, dual channel 25MHz AWG, 5,000 counts DMM and power supply
- MPO-2104B 100MHz, 4-channel, Digital Storage Oscilloscope, Spectrum analyzer ,dual channel 25MHz AWG, 5,000counts DMM and power supply
- MPO-2102B 100MHz, 2-channel, Digital Storage Oscilloscope, Spectrum analyzer ,dual channel 25MHz AWG, 5,000 counts DMM and power supply
- EAN code:

Model name	Part No.	EAN-13 code
MPO-2204P (CE)	01MP224P00GS	4711458120757
MPO-2202P (CE)	01MP222P00GS	4711458120740
MPO-2104B (CE)	01MP214B00GS	4711458120733
MPO-2102B (CE)	01MP212B00GS	4711458120726

- Standard Accessories
  - Power Cord, Certificate of Calibration,
  - Passive probe (one probe per channel)
  - GTL-110 BNC-BNC cable*2
  - GTL-105A Alligator Clip test lead
  - GTL-207 Banana plug test lead
- Option
  - MP2-PRO: Basic version upgrade to Professional version Part No:11MP-2PRO0C01
- Free Download
  - OpenWave software; LabVIEW driver

Website

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