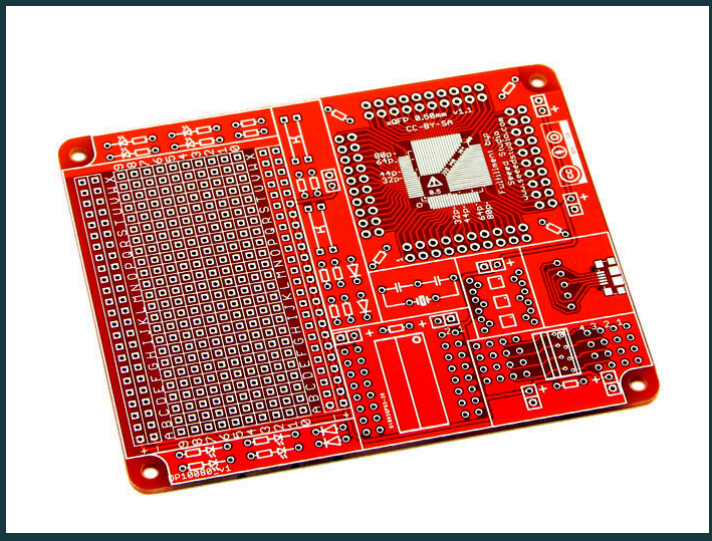
seeed studio

INDUSTRIAL PRODUCT DATASHEET

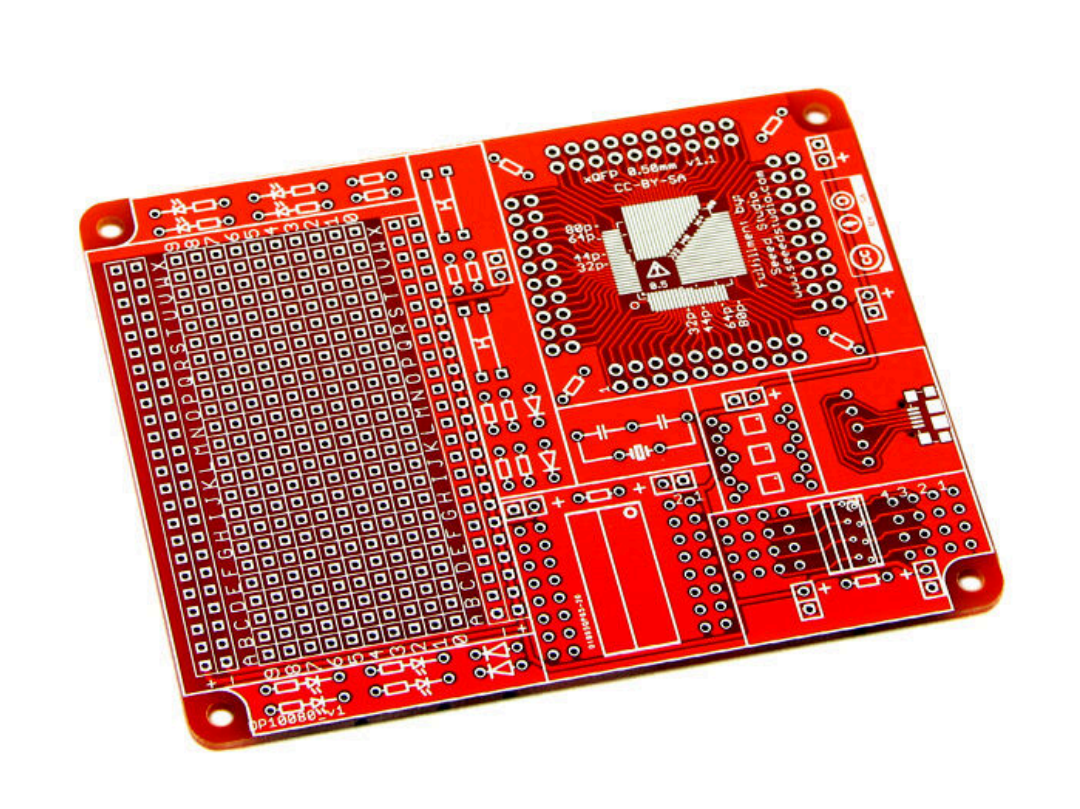
QFP surface mount protoboard - 0.80mm + 0.50mm

Pocket-size 32-bit digital storage oscilloscope with 200kHz analog bandwidth and 1Msps sampling rate.

SKU	UPDATED	PRICE
319010042	2024-08-09 02:11:27	$10.00(Excl. VAT)



Overview



The QFP surface mount protoboard - 0.80mm + 0.50mm is a pocket-size 32-bit digital storage oscilloscope based on ARM Cortex-M3 with a 320x240 color display, USB port, and rechargeable battery. It features a built-in 2 Mbyte storage chip, upgraded firmware, and a black metal shell, suitable for school labs, electronics repair, and electrical engineering.

Key Features

The DSO Nano V3 is a pocket-size compatible 32bit digital storage oscilloscope. Based on ARM -M3, it's equipped with 320*240 color display, SD card, USB port and recharging function. It's compact, simple to operate; meets the basic demands of school lab, electric furniture repairment and electric engineering.

This is a updated and cool version of DSO Nano which features a firmware and a embedded 2 Mbyte storage chip instead of micro SD card slot. The documents of this version in detail is on this page, please refer to it.

NOTE：For DSO Nano with SD card slot, it is not available now. If you get one from our distributers’ stock, please click **here** to check the document.

Updates in v3:

- V3 used a new firmware with user-friendly interface, easier to operate
- Upgraded firmware via virtual disk
- Added build-in 2Mbyte storage chip instead of micro SD card slot
- Black metal shell

Features

- Portable and lightweight
- Color display
- Waveform storage and playback
- 6 triggering modes
- 200Khz Analog Bandwidth
- Complete measurement markers and signal characteristics

- Built-in Signal Generator
-
- Accessories available
-
- Open Source
-

Specifications

-
- Display: 2.8’’ color TFT LCD
-
- Display Resolution: 320x240 Display Colors 65K
-
- Analog Broadband: 0 ~ 200kHz
-
- Max. Sampling Rate: 1Msps 12 bit
-
- Sampling Storage Depth: 4096 points
-
- Transverse Sensitivity: 1uS/Div~10S/Div(1-2-5 stepping)
-
- Vertical Sensitivity: 10mv/Div~10V/Div(x1 probe) 0.5V/Div~10V/Div(x10 probe)
-
- Input Resistance: >500KΩ
-
- Max. Input Voltage: 80Vpp（x1 probe）400Vpp(x10 probe)
-
- Coupling Mode: DC
-
- Triggering Mode: Auto，Normal，Single，None
-
- Auto Measurement: Frequency, cycle, duty, Vpp, Vram, Vavg, DC voltage; Vertical Precise Measurement Cursor; Horizontal Precise Measurement Cursor; Rising/Falling Edge Trigger; Triggering Cursor; Triggering Sensitivity Cursor; Hold/Run

-
- Inbuilt Test Signal: 10Hz~1MHz(1-2-5 stepping)
-
- Waveform Storage: build-in 2Mbyte
-
- PC Connection Interface: Connection through USB
-
- Recharging Method: Recharging through USB interface
-
- Dimensions:105mm x 53mm x 8mm
-

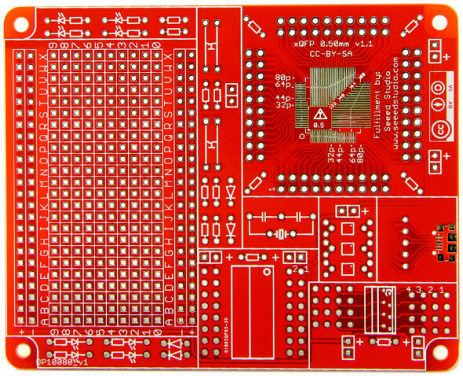
Part list:

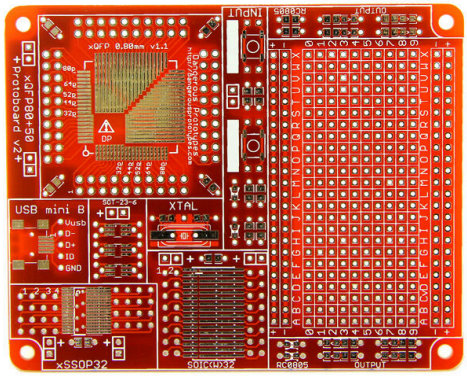
-
- DSO Nano x1
-
- Metal Stand x1
-
- Screw x1
-
- Probe cable x1
-
- Sack x1
-

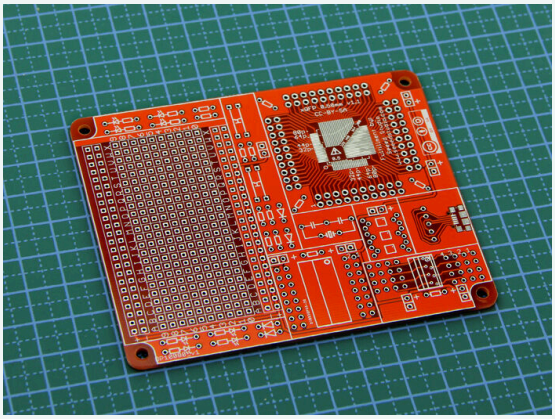
Documents

-
- User Manual
-
- Schematic Design
-
- Firmware
-

Product Gallery







Part List

-
- Display: 2.8’’ color TFT LCD
-
- Display Resolution: 320x240 Display Colors 65K
-
- Analog Broadband: 0 ~ 200kHz
-
- Max. Sampling Rate: 1Msps 12 bit
-
- Sampling Storage Depth: 4096 points
-
- Transverse Sensitivity: 1uS/Div~10S/Div(1-2-5 stepping)
-
- Vertical Sensitivity: 10mv/Div~10V/Div(x1 probe) 0.5V/Div~10V/Div(x10 probe)
-
- Input Resistance: >500KΩ
-
- Max. Input Voltage: 80Vpp（x1 probe）400Vpp(x10 probe)
-
- Coupling Mode: DC
-
- Triggering Mode: Auto，Normal，Single，None
-
- Auto Measurement: Frequency, cycle, duty, Vpp, Vram, Vavg, DC voltage; Vertical Precise Measurement Cursor; Horizontal Precise Measurement Cursor; Rising/Falling Edge Trigger; Triggering Cursor; Triggering Sensitivity Cursor; Hold/Run
-
- Inbuilt Test Signal: 10Hz~1MHz(1-2-5 stepping)
-
- Waveform Storage: build-in 2Mbyte
-
- PC Connection Interface: Connection through USB
-
- Recharging Method: Recharging through USB interface

-
- Dimensions:105mm x 53mm x 8mm
-
-
- DSO Nano x1
-
- Metal Stand x1
-
- Screw x1
-
- Probe cable x1
-
- Sack x1
-

Compliance & Logistics

HSCODE	8534009000
ROHS	1

Resource Links

- https://www.seeedstudio.com/QFP-surface-mount-protoboard-0-80mm-0-50mm-p-1360.html
- Wiki
- DSO Nano Official Firmware App2.6
- DSO Nano Hardware v2.6 Layout.pdf
- DSO Nano Hardware v2.6 Shcematic.pdf
- BenF Firmware v3.64
- DSO_Nano_V3_User_Manual.pdf

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com