

FEATURES

- 6 digit frequency counter
- Multi-language display
- Embedded online help
- Digital filter function
- Waveform recorder

RS PRO RSDS1072CML+ Oscilloscope, Digital Storage, 2 Channels, 70MHz

RS Stock No.: 123-6436



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO RSDS1000CML+/DL+ Series is a dual-channel universal digital oscilloscope available in 50 MHz, 70 MHz, 100 MHz and 150 MHz bandwidth models.

Options available:

- [1236435](#) - 50MHz,2 channels
- [1236436](#) - 70MHz,2 channels
- [1236437](#) - 100MHz,2 channels
- [1236438](#) - 150MHz,2 channels

General Specifications

Series	RSDS1000CML+/DL+
Model Number	RSDS1072CML+
Oscilloscope Type	Digital Storage
Bandwidth	70MHz
Low Frequency	≤10Hz
Sampling Type	Real Time, Equivalent
Sampling Mode	Sampling, Peak Detection, Average
Average Time	4, 16, 32, 64, 128, 256
Standard Interfaces	USB
Additional Interfaces	LAN, Pass/Fail out
Calibration Available	Yes
Applications	Educational laboratories, Electronics troubleshooting and measurement, Embedded electronics, Mixed-signal and video designing, Automotive electronics

Input System

Input Coupling	AC, DC, GND
Input impedance	1MΩ ±2%. 18pf ±3pf
Probe attenuator	1X, 10X
Probe attenuator Factor Set	1X, 10X, 50X, 100X, 500X, 1000X
Maximum Input Voltage	400V
Input Sensitivity	2mV/div to 10V/div
Channel to Channel Isolation	>35dB
Single Channel Common Mode Rejection Ratio	> 100:1
Input Channel Connectors Type	BNC

Vertical System

Maximum Vertical Sensitivity	2mV/div
Minimum Vertical Sensitivity	10V/div
Vertical Resolution	8 bit
DC Gain Accuracy	5mv/div-10v/div: ≤±3% , ≤±4.0%: ≤2mV/div
DC Measurement Accuracy (≤200mv/div)	±[3.0%*(reading + offset +1% * offset +0.2div+2mV]
DC Measurement Accuracy (>200mv/div)	±[3.0%*(reading + offset +1% * offset +0.2div+100mV]
Rise Time	≤3.5ns
Channel Voltage Offset Range	2mV-200mV: ±1.6V, 206mV ~ 10V: ± 40V
Math Operation	+, -, *, /, FFT
FFT	Hanning, Hamming, Blackman, Rectangular
Channel-to-channel skew	<500ps

Horizontal System

Real Time Sampling Rate	1GSa/s
Interaction Mode	X, Sinx
Memory Depth	2Mpts
Measure Display Mode	Y-T, X-Y, Roll
Time Base Range	2.5ns/div~50s/div
Horizontal Scan Rate	100ms/div ~ 50s/div

X-Y Mode

X-Pole Input / Y-Pole Input	Channel 1 (CH1), Channel 2 (CH2)
Sample Frequency	1GSa/s

Measurement System

Auto Measure	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg, Mean, Crms, Vrms, ROVShoot, FOVShoot, RPREShoot, FPREShoot, Rise time, Fall time, Freq, Period, + Wid, -Wid, + Dut, - Dut, BWid, Phase, FRR, FRF, FFR, FFF, LRR, LRF, LFR, LFF
Cursor Measure	Manual, Track and Auto

Trigger Specifications

Trigger Type	Edge, Pulse Width, Video, Slope, Alternative
Trigger Source	CH1/CH2/EXT/(EXT/5)/AC Line
Trigger Modes	Auto, Normal, single
Trigger Coupling	AC, DC, LF Reject, HF Reject
Trigger Level Range	Internal: ± 6 divisions / EXT: $\pm 1.2V$ / EXT/5: $\pm 6V$
Trigger Displacement	Pre Trigger: Memory depth/(2*sampling) Delay Trigger: 260div
Trigger Sensitivity	For Fixed Range : 1DIV = DC – 10MHz EXT : $\pm(6\%$ of setting 40Mv)
Hold-off Range	100ns – 1.5s
Edge Trigger	Edge Type: Rising, Falling, Rising and Falling
Pulse Width Trigger	Trigger Mode: Positive, Negative Pulse width Range : 2ns - 10s
Video Trigger	Support Signal Format: PAL/NTSC/SECAM Trigger Condition : odd field, even field, all lines, line num
Slope Trigger	Rising, Falling

Control Panel Function

Auto Set	Auto adjusting the Vertical system, Horizontal system and Trigger Position
Save/Recall	Setting, Waveform, Bmp, CSV 2 refs, 20 settings, 10waveforms, internal Save to USB disk

Display System

Display Mode	5.7 inch TFT colour LCD
Resolution	800 × 480
Display Colour	24 bits
Display Contrast	500:1
Backlight Intensity	300nit
Waveform Display Range	8 x 16 div
Waveform Display Mode	Dots, Vector
Persistence	Off, 1sec, 2sec, 5sec, Infinite
Screen-Saver	Off, 1min, 2min, 5min, 10min, 15min, 30min, 1hour, 2hour, 5hour
Waveform Interpolation	Sin(x), x
Colour model	Normal , Invert
Language	English, Simplified Chinese, Traditional Chinese, Arabic, French, German, Russian, Portuguese Spanish, Japanese, Korean, Italian

Electrical Specifications

Operating Supply Voltage	100Vrms to 240Vrms 50/60Hz
Safety Category Level and Voltage	CAT I 400V, CAT II 400V

Mechanical Specifications

Dimensions	323.1mm x 135.6mm x 157mm
Length	323.1mm
Width	135.6mm
Height	157mm
Weight	2.5kg

Operation Environment Specifications

Altitude	≤3000m
Relative Humidity	85%RH
Operating Temperature Range	0°C to 40°C
Storage Temperature Range	-20°C to 70°C

Approvals

Compliance/Certifications	EN61340, CE
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Ordering information

Description	Model
50MHz, 2CH, 500MSa/s (Max.) , 32Kpts, 7inch (800*480) LCD	RSDS1052DL+
70MHz, 2CH, 1GSa/s (Max.) , 2Mpts, 7inch (800*480) LCD	RSDS1072CML+
100MHz, 2CH, 1GSa/s (Max.) , 2Mpts, 7inch (800*480) LCD	RSDS1102CML+
150MHz, 2CH, 1GSa/s (Max.) , 2Mpts, 7inch (800*480) LCD	RSDS1152CML+

Standard Accessories

- USB Cable -1
- Quick Start -1
- Certificate of Calibration -1
- Passive Probe -2
- Quality Certificate -1
- Power Cord -1
- CD (Included User Manual and EasyScopeX software) -1