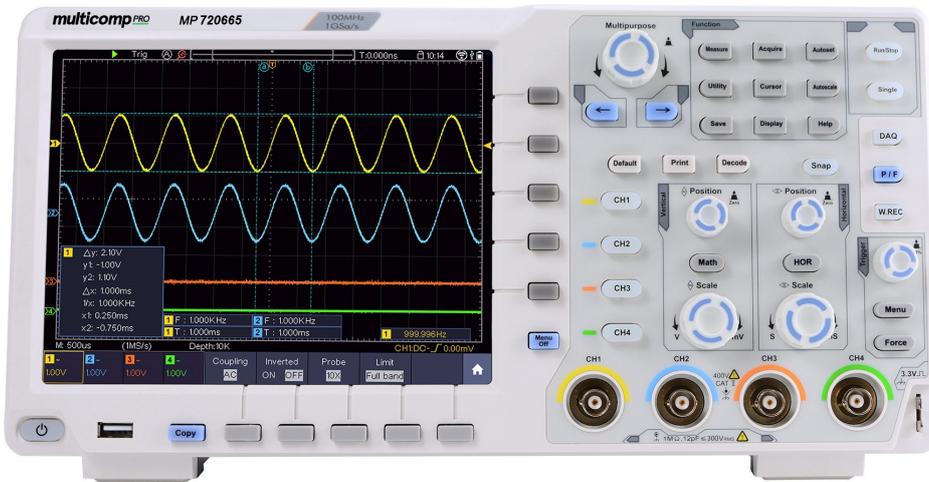


4 Channel Digital Storage Oscilloscope

multicomp PRO



Features

- 100MHz Bandwidth, 1GS/s sample rate
- 40M record length 45,000 wfms/s waveform refresh rate
- Low back ground noise
- 8" 800 × 600 high resolution LCD Display, multi-touch screen, more user-friendly operation experience
- SCPI and LabVIEW supported
- Multi- trigger, and bus decoding function
- Multi-interface integration - USB host, USB device, USB port for PictBridge, LAN, AUX, and VGA

Oscilloscope Specifications

Bandwidth	100MHz
Sample Rate	1GS/s
Vertical Resolution (A/D))	8 bits
Record length	40M
Waveform Refresh Rate	45,000 wfms/s
Horizontal Scale (s/div))	2ns/div - 1000s/div, step by 1 - 2 - 5
Rise Time (at input, typical)	≤3.5ns
Channels	4
Display	8" colour LCD, 800 x 600 pixels display
Input Impedance	1MΩ ± 2%, in parallel with 15pF ± 5pF
Channel Isolation	50Hz : 100 : 1, 10MHz : 40 : 1
Max Input Voltage	1MΩ ≤ 300Vrms;
DC Gain Accuracy	±3%
DC Accuracy	Average≥16: ±(3% +0.05div) for ΔV
Probe Attenuation Factor	0.001X - 1000X, step by 1 - 2 - 5
LF Respond (AC, -3dB)	≥5Hz
Sample Rate / Relay Time Accuracy	±2.5ppm

Newark.com/exclusive-brands
 Farnell.com/exclusive-brands
 Element14.com/exclusive-brands

multicomp PRO

4 Channel Digital Storage Oscilloscope

multicomp PRO

Interpolation	(sinx) / x,x	
Interval (ΔT) Accuracy (full bandwidth)	Single: $\pm(1 \text{ interval time} + 1 \text{ ppm} \times \text{reading} + 0.6 \text{ ns})$; Average > 16: $\pm(1 \text{ interval time} + 1 \text{ ppm} \times \text{reading} + 0.4 \text{ ns})$	
Input Coupling	DC, AC, GND	
Vertical Sensitivity	1mV/div - 10V/div (at input)	
Trigger Type	Edge, Video, Pulse, Slope, Runt, Windows, Timeout, Nth Edge, Logic, I2C, SPI, RS232, and CAN	
Bus Decoding	I ² C, SPI, RS232, CAN	
Trigger Mode	Auto, Normal and Single	
Vertical Range	$\pm 2V(1 \text{ mV/div} \sim 50 \text{ mV/div})$; $\pm 20V(100 \text{ mV/div} \sim 1 \text{ V/div})$; $\pm 200V(2 \text{ V/div} \sim 10 \text{ V/div})$	
Line / Field Frequency (video)	NTSC, PAL and SECAM standard	
Cursor Measurement	ΔV , and ΔT between cursors, ΔV and ΔT between cursors, and auto- cursors	
Automatic Measurement	Vpp, Vavg, Vrms, Freq, Period, Peak RMS, Cursor RMS, Vmax, Vmin, Vtop, Vbase, Vamp, Overshoot, Phase A→B ↑, Phase A→B ↓, Preshoot, Rise Time, Fall Time, +Width, -Width, +Duty, -Duty, Duty Cycle, Delay A→B ↑, Delay A→B ↓, +Pulse Count, -Pulse Count, Rise Edge Count, Fall Edges Count, Area, Cycle Area	
Waveform Math	+, -, ×, ÷, FFT	
Waveform Storage	100 waveforms	
Lissajou's Figure	Full bandwidth	Full bandwidth
	± 3 degrees	± 3 degrees
Communication Interface	USB host, USB device, USB port for PictBridge, Trig Out (P/F), WiFi, LAN, and VGA	
Frequency Counter	Available	
Power Supply	100V AC to 240V AC, 50/60Hz, CAT II	
Fuse	2A, T class, 250V	
Battery	3.7V, 13200mA	
Dimension (W × H × D)	340mm × 177mm × 90mm	
Standard Accessories Included	Power cord, USB cable, CD-Rom.Manual, Probes, Probe Adjust Tool	
Power Cord Plug Type	UK / EU	
Warranty	12 months	

Multimeter Specifications

Full Scale Reading	3-3/4 digits (max 4000 count)
Input Impedance	10M Ω
Capacitance	51.2nF - 100 μ F: $\pm(3\% \pm 3 \text{ digits})$
Voltage	DCV: 400mV, 4V, 400V: $\pm(1 \pm 1 \text{ digit})$; max input: DC 1000V ACV: 4V, 40V, 400V: $\pm(1 \pm 3 \text{ digits})$; frequency: 40Hz - 400Hz Max input: AC 750V (virtual value)
Current	DCA: 40mA, 400mA: $\pm(1.5\% \pm 1 \text{ digit})$; 10A: $\pm(3\% \pm 3 \text{ digits})$ ACA: 40mA: $\pm(1.5\% \pm 3 \text{ digits})$, 400mA: $\pm(2\% \pm 1 \text{ digit})$, 10A: $\pm(3\% \pm 3 \text{ digits})$

Newark.com/exclusive-brands
Farnell.com/exclusive-brands
Element14.com/exclusive-brands

multicomp PRO

4 Channel Digital Storage Oscilloscope

multicomp PRO

Impedance	400Ω: ±(1% ±3 digits), 4KΩ - 40MΩ: ±(1% ±1 digit)
Diode	0V -1.5V
Continuity Test	<50 (±30) beeping

Arb Waveform Generator Specifications

Max Frequency Output	25MHz
Sample Rate	125MS/s
Channel	2 channel
Vertical Resolution	14 bits
Amplitude Range	2mVpp - 6Vpp
Waveform Length	8K
Standard Waveform	Sine, Square, Pulse, Ramp
Arbitrary Waveform	Exponential Rise, Exponential Fall, Sin(x)/x, Step Wave, Noise, and others, total 46 built-in waveforms, and user-defined arbitrary waveform

Module / Function

VGA	VGA+AV port
MTS	Touch screen (capacitor-type)

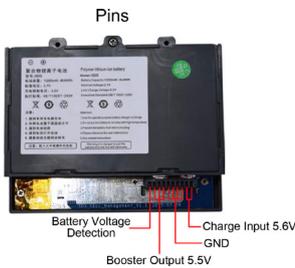
Decoding Kit

RS232	RS232
SPI	SPI
I ² C	I ² C
CAN	CAN

4 Channel Digital Storage Oscilloscope

Polymer Lithium-ion Battery

Battery Specification Table



Characteristics	Item	Values
Li Battery	Capacity	13200mAh 48.84Wh
	Nominal Voltage	3.7V
	Limited Charge Voltage	4.2V
Protective Circuit	Charge Voltage	≤4.2V
	Charge Current	≤3A
	Discharge Voltage	2.8V ≤ Voltage ≤ 4.2V
	Discharge Current	≤7A
Charging Management	Charge Voltage Input Range	4.2V to 10V
	Rated Charge Voltage	5.6V
Battery Booster	Rated Output Voltage	5.5V ± 2%
	Output Voltage Ripple (20MHz)	≤100mVpp
	Output Current	≤4A
System	Charging Time	8 hours approximately
	Discharging Time	3.5 hours approximately
Operating Temperature	Charging Temperature	0°C to +45°C
	Discharging Temperature	-20°C to +60°C
	Storage Temperature	-10°C to +45°C
Dimension	119.2mm × 97.2mm × 25.7mm (L × W × T)	
Weight	371.9g	

Part Number Table

Description	Part Number
4 Channel Digital Storage Oscilloscope, 100MHz	MP720665 EU-UK
Polymer Lithium-ion Battery for Oscilloscope (MP720665 EU-UK)	MP720417

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.