100MS/s Dual-Channel Arbitrary Waveform / Function Generator

TABOR'S NEW WW
WONDER WAVE SERIES

MODEL WW1072

- Dual-channel 100MS/s waveform generator
- 1 Meg waveform memory, 2Meg memory, optional
- 14 digits frequency resolution (limited by 1μHz)
- 14 Bit amplitude resolution
- 1 ppm clock accuracy and stability
- Sine and Square waves to 50MHz
- 10 Built-in popular standard waveforms library
- Sophisticated Memory Management, including segmentation and sequences
- AM, FM, Arbitrary FM, FSK, Ramped FSK modulations
- Linear and Logarithmic Sweep
- User-friendly 3.8" color LCD display
- Multi-Instrument synchronization
- DDS technology for extremely low phase noise signals
- Ethernet 10/100, USB 2.0 and GPIB interfaces

The 1072 system represents a new dimension in arbitrary waveform generator design. With an unprecedented combination of arbitrary generator and synthesizer, versatility, high resolution and wide frequency range, and outstanding performance-to-price ratio, the 1072 delivers diverse benefits that will facilitate tasks in many fields.

100MS/s Sample Rate
New technology requirements are driving communications systems to use increasingly narrow channel widths. A high sample rate of 100MS/s makes the 1072 an ideal modulation source for troubleshooting new encoding schemes. The 1072 also provides high-speed waveforms to simulate signal distortion, video signals, component failures, and power supply line cycle dropouts and transients.

High Performance
Each channel of the 1072 delivers precise waveforms with 14 bits of amplitude resolution and 14 digits of frequency resolution with extremely low phase noise.

Exceptional electrical performance includes up to 10Vp-p into 50Ω over the full frequency range. Selectable filters ensure clean stimulus waveforms enabling the generator to simulate modulation waveforms.

14 Bit Resolution
The 14-bit resolution provides 16,384 output levels. This means that even audio waveforms can be generated with excellent fidelity. It also allows video-and other complex waveforms-to be generated with small details superimposed on large signals, in order to test the response of receiving systems.

Function Generator
When used as a simple function generator the instrument offers ten basic waveforms with adjustable parameters all of which are accessible from the front panel. These are sine, triangle, square, pulse, ramp, sinc, Gaussian, exponential (up and down), noise, as well as DC. Sine and square waves can be generated at up to 50MHz.

2M Memory
The 1072 offers 1M word (2M word optional) memory for arbitrary waveforms. In addition, the memory can be divided into as many as 4096 segments, which can be looped and linked in many different ways. Using 1M word at 25MS/s to generate a video signal, for example, the duration is 0.04 seconds, 25Hz, even without any looping of repetitive elements.

Sequence Generator
When the sequencing facilities are employed, the 1072's uniqueness is obvious. The memory segments can be linked and repeated in any combination both manually and under programmed control. This allows test software to switch between many different waveforms rapidly without the need to download multiple times, enhancing test throughput in a way that unmatched by competing products. The sequence generator has four advanced modes: automatic, stepped, single and mixed, which make it even a more powerful tool.

100MS/s Dual-Channel Arbitrary Waveform / Function Generator

Model WW1072

High-Quality Modulation Signal Source
One of the many attractive features of the 1072 is the sample clock modulation function. In ordinary arbitrary waveform generators, to make a frequency modulated sine wave you have to enter the complete mathematical function. Not so with the 1072: all that is necessary is generating the carrier signal, and then modulating the clock to obtain the required result. The sample clock modulation can be done using internal waveforms such as sine, square, triangle, and ramp or using downloaded arbitrary modulating waveforms. This allows you to generate signals that would be difficult or impossible to define using an equation. AM, Linear and Logarithmic Sweeps, FSK and Ramped FSK are available as well.

Triggering Facilities
However versatile the waveform generation systems are made, the need for external control of generation is vital. The triggering facilities of the 1072 match the generation functions in versatility. In the simplest mode, signals are output continuously. The 1072 also offers the triggered mode, gated mode, external burst mode, and internal burst mode, all of which can use an external trigger signal or an internal trigger. The use of external sources to prompt the switching of segments has already been mentioned.

Easy to use
Large and user-friendly 3.8" back-lit color LCD display facilitates browsing though menus, updating parameters and displaying detailed and critical information for your waveform output. Combined with numeric keypad, cursor position control and a dial, the front panel controls simplifies the often complex operation of an arbitrary waveform generator.

High Speed Access
Access speed is an increasingly important requirement for test systems. Included with the instrument is a variety of interfaces: Ethernet 10/100, USB 2.0 and GPIB so one may select the interface most compatible to individual requirements. Using any of the external interfaces, controlling instrument function and features as well as downloading waveforms and sequences are fast, time saving and easily tailored to every system regardless if it is just a laptop to instrument or full-featured ATE system. IVI drivers and factory support will speed up system integration thus minimizing time-to-market and reduce system development costs significantly.

Precise Inter-Channel Phase Control
In the 1072, both channels share a common sample clock, and both channels are triggered from the same source assuring tightly synchronized channel-to-channel timing. Precise control over channel-to-channel phase offset is achieved by allowing control over channel start phase with a resolution down to as small as 1 waveform point. This enables extremely accurate timing or phase dependencies to be studied, such as those found in high speed digital communication systems.

Multi-Instrument Synchronization
Multiple 1072 can be synchronized using a Master-Slave arrangement allowing users to benefit from the same high quality performance in their multi-channels needs.

ArbConnection
ArbConnection is a graphical tool that provides an unlimited source of Arbitrary Waveforms. With the ArbConnection software you can control instruments functions, modes and features. You can also create a virtually infinite amount of test waveforms. Freehand sketch allows you to draw your own custom waveform for quick analysis of analog signals. You can use the built-in equation editor to create your own exotic functions. Add or subtract components of a Fourier series to characterize digital or analog filters or inject random noise into a signal to test immunity to auxiliary noise.

100MS/s Dual-Channel Arbitrary Waveform / Function Generator

Model WW1072

Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

Manuals, Drivers, and Software Support

Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data “in a click”.

Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a hands-on demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

Five-year Warranty

Every instrument from the Wonder Wave series comes with a five-year warranty. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within five years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

CORPORATE HEADQUARTERS
9 Hatasia St. P.O.Box404,
Tel Hanan, Israel 20302
☎ +972 (4) 8213393
FAX +972 (4) 8213388
www.taborelec.com

EUROPE

Austria
UEI-Vienna
☎ +43 15451 588
FAX +43 15451 464

Benelux (Belgium, The Netherlands and Luxembourg)
BFI Optilas B.V.
☎ +31 172 44 60 60
FAX +31 172 44 34 14

Bulgaria
New-Tek Ltd.
☎ +359 296 25286
FAX +359 268 7110

Cyprus
Sprel Ltd.
☎ +357 2237 7159
FAX +357 2237 7284

Czech Republic & Slovakia
Testovaci Technika s.r.o.
☎ +420 2 7478 2237
FAX +420 2 7478 1285

Denmark
Metric Industrial A/S
☎ +45 4371 6444
FAX +45 4371 6433

Finland
Metric Industrial Oy
☎ +358 9 4761 600
FAX +358 9 4761 6700

France
Racal Instruments SAS
☎ +33 1 3923 2205
FAX +33 1 3923 2225

Germany
CompuMess Elektronik GmbH
☎ +49 89 321501-0
FAX +49 89 321501-11

ADMess GmbH
☎ +49 6352 6091
FAX +49 6352 1288

Greece
American Technical S.A
☎ +30 210 5240 740
FAX +30 210 5249 995

Hungary
ProMet Merestechnika
☎ +36 24 521 240
FAX +36 24 521 253

Italy
LP Instruments srl
☎ +39 2 4840 1713
FAX +39 2 4840 1852

Norway
Metric Industrial AS
☎ +47 4000 4054
FAX +47 4000 4053

Poland
NDN
☎ +48 22 641 1547
FAX +48 22 644 4250

Romania
ARC Brasov srl
☎ +40 268 472 577
FAX +40 268 419 749

Russia
Prist
☎ +7 495 777 5591
FAX +7 495 236 4558

Spain & Portugal
Setup Electronica S.L
☎ +34 93 414 0372
FAX +34 93 414 0991

Sweden
Ferner Elektronik AB
☎ +46 8 760 8360
FAX +46 8 760 8341

Switzerland
Elstar Elektronik AG
☎ + 41 56 427 1888
FAX + 41 56 427 1976

United Kingdom & Ireland
SEMATRON UK Ltd.
☎ + 44 1256 812222
FAX + 44 1256 812666

Yugoslavia (Bosnia, Croatia, Macedonia,Montenegro, Serbia, Slovenia)
MEM
☎ +43 1942 4254
FAX +43 1943 4251

ASIA PACIFIC & JAPAN

Australia
Trio T&M Solutions
☎ +61 8 8234 0504
FAX +61 8 8234 0130

India
AIMIL Ltd.
☎ +91 11 2695 0001
FAX +91 11 2695 0011

Japan
TOYO Corporation
☎ +81 3 3279 0771
FAX +81 3 3246 0645

South Korea
Zenixon Korea Co.
☎ +82 2 574 0084
FAX +82 2 574 6447

Malaysia, Philippines & Thailand
Genetron Inc.

Malaysia
☎ +603 5513 3604
FAX +603 5513 3608

Philippines
☎ +63 2672 0813
FAX +63 2671 9490

Thailand
☎ +66 2948 7299
FAX +66 2948 7322

New Zealand
Electrotest Ltd.
☎ +64 9 448 2600
FAX +64 9 448 2611

Singapore & Vietnam
Gold Lite Engineering Pte Ltd.
☎ +65 6273 0487
FAX +65 6273 5006

Taiwan, China & Hong Kong
LeColn Technology Co. Ltd.

Taiwan
☎ +886 2 8226 1366
FAX +886 2 8226 1368

China & Hong Kong
☎ +86 21 5878 4585
FAX +86 21 5878 4595

AFRICA

South Africa
Inala Technologies (Pty) Ltd.
☎ +27 11 206 8368
FAX +27 11 206 8361

MIDDLE EAST

Israel
Lahat Technologies Ltd.
☎ +972 3 547 2741
FAX +972 3 547 2742

Turkey
Netes Ltd.
☎ + 90 216 340 5050
FAX + 90 216 339 5556

UNITED STATES
SALES & SUPPORT OFFICE
☎ +1 909 797 0484
FAX +1 760 751 1284

CANADA
Testforce Systems Inc.
☎ +1 514 856 0970
FAX +1 514 856 6983

SOUTH AMERICAS
Tecnolink Electronics Co.
☎ +1 440 543 7710
FAX +1 440 543 9681

Specification
100MS/s Dual-Channel Arbitrary Waveform / Function Generator

Model WW1072

CHANNELS

Number of Channels: 2, semi-independent

INTER-CHANNEL CONTROL

LEADING EDGE OFFSET

Description: Channel 2 edge trails channel 1 edge by a programmable number of points.
Range: 0 to 1Meg points, 2Meg optional
Resolution and Accuracy: 1 point, or 1 sample clock period of channel 2
Initial Skew: < ±2ns, with sclk divider = 1; < ±3ns, with sclk divider > 1

CHANNEL 2 SAMPLE CLOCK DIVIDER

Description: The sample clock source is common to both channels 1 and 2, however, the sample clock for the slave channel can be divided.
Range: 1 to 65,535 points
Resolution: 1 point

INTER-CHANNEL DEPENDENCY

Separate controls: Output on/off, amplitude, AM, offset, standard waveforms, user waveforms, user waveform size, sequence table, channel 2 clock divider, trigger start phase, breakpoints
Common Controls: Sample clock (Arb), frequency (Std), reference source, trigger modes, sequence advance mode, SYNC output, FM, FSK, sweep, arm start/stop

STANDARD WAVEFORMS

Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC.
Frequency Range: Waveform dependent
Source: Internal synthesizer

SINE

Frequency Range: 100µHz to 50MHz
Start phase: 0 to 360°
Harmonics Distortion (at 5Vpp):

DC to 1MHz	-50dBc
1 to 5MHz	-45dBc
5 to 10MHz	-35dBc
10 to 50MHz	-22dBc

Non-Harmonic Distortion:

DC to 10MHz	-60dBc
10 to 50MHz	-50dBc

Total Harmonic Distortion:

DC to 100kHz	0.1%

Flatness (1kHz):

DC to 1MHz	1%
1MHz to 25MHz	5%
25MHz to 50MHz	20%

TRIANGLE

Frequency Range: 100µHz to 15MHz
Start phase: 0 to 360°

SQUARE

Frequency Range: 100µHz to 50MHz
Duty cycle: 1% to 99%
Rise/Fall time: <10ns, typically < 8ns
Aberration: <5%

PULSE

Frequency Range: 100µHz to 15MHz
Delay, Rise/Fall Time, High Time Ranges: 0%-99.9% of period (each independently)
Rise/Fall time: <10 ns, typically < 8ns
Aberration: <5%

RAMP

Frequency Range: 100µHz to 15MHz
Delay, Rise/Fall Time Ranges: 0%-99.9% of period (each independently)

SINC (SINE(x)/x)

Frequency Range: 100µHz to 6.25MHz
"0" Crossing: 4 to 100 cycles

GAUSSIAN PULSE

Frequency Range: 100µHz to 6.25MHz
Time Constant: 1 to 200

EXPONENTIAL FALL/RISING PULSE

Frequency Range: 100µHz to 6.25MHz
Time Constant: -100 to 100

REPETITIVE NOISE

Bandwidth: 25MHz

DC

Range: -100% to 100% of amplitude

ARBITRARY WAVEFORMS

Sample Rate: 100mS/s to 100MS/s
Vertical Resolution: 14Bits
Waveform Memory: 1Meg points standard, 2Meg points optional (per channel)

MEMORY SEGMENTATION

No. of Segments: 1 to 2048
Min. Segment Size: 16 points
Resolution:: 4 points size increments from 16 to 1M points (2M optional)

SEQUENCED ARBITRARY WAVEFORMS

Operation: Permits division of the memory bank into smaller segments. Segments may be linked, and repeated in user-selectable fashion to generate extremely long waveforms.

ADVANCE MODES

Automatic Sequence Advance: No triggers required to step from one segment to the next. Sequence is repeated continuously through a pre-programmed sequence table
Stepped Sequence Advance: Current segment is sampled continuously, external trigger advances to next programmed segment. Control input is TRIG IN connector.
Single Sequence Advance: Current segment is sampled to the end of the segment including repeats and idles there. Next trigger advances to next segment. Control input is TRIG IN connector.
Mixed Sequence Advance: Each step of a sequence can be programmed to advance either: a) automatically (Automatic Sequence Advance), or b) with a trigger (Stepped Sequence Advance)

Advance Source: External, rear panel BNC; Internal; GPIB
Sequencer steps: From 1 to 2048
Segment loops: From 1 to 1Meg
Minimum Segment Duration: 1µs for more than one loop.

Specification
100MS/s Dual-Channel Arbitrary Waveform / Function Generator

Model WW1072

COMMON CHARACTERISTICS

FREQUENCY

Resolution: 14 digits limited by 1µS/s
Accuracy & Stability: Same as reference

10MHz REFERENCE CLOCK

Internal	0.0001% (1ppm TCXO) initial tolerance over a 19°C to 29°C temperature range; 1ppm/°C below 19°C and above 29°C; 1ppm/year aging rate
External	10MHz TTL, 50% ±2% duty cycle

AMPLITUDE

Range: 10mV to 10Vp-p, into 50Ω; Double into open circuit
Resolution: 4 digits
Accuracy (1 KHz):

1.000V to 10Vp-p	±(1% + 25mV)
100mV to 999.9mVp-p	±(1% + 5mV)
10mV to 99.99mVp-p	±(1% + 2mV)

OFFSET

Range: 0 to ±4.5V Independent to amplitude setting as long as (amplitude/2) + (offset) does not exceed 5Vp-p
Resolution: 2.2 mV
Accuracy: ±1%

FILTERS

Type: 50MHz Elliptic
25MHz Elliptic

OUTPUTS

MAIN OUTPUTS

Connector: Front panel BNC
Stand-by: Output Off or Normal
Impedance: 50Ω, ±1%
Protection: Protected against temporary short to case ground

SYNC/MARKER OUTPUT

Connector: Front panel BNC
Impedance: 50Ω, ±1%
Level: >2 V into 50Ω, 4V nominal into 10kΩ
Validators: BIT, LCOM
Protection: Protected against temporary short to case ground
Position: Point 0 to n, Programmable with 4-point resolution
Width Control: Programmable
Range: 4 to 100000 waveform points
Resolution: 4 points
Source: Channel 1

SINEWAVE OUTPUT

Connector: Rear panel BNC
Impedance: 50Ω, ±1%
Level: 1V into 50Ω
Protection: Protected against temporary short to case ground
Source: Sample clock frequency
Frequency Range and Resolution: Same as Sample clock
Total Harmonic Distortion: 0.05% to 100KHz
Harmonics and non-related spurious: < -30dBc to 100MHz

SAMPLE CLOCK OUTPUT

Connector: Rear panel SMB
Level: ECL
Impedance: 50Ω, terminated to –2V

INPUTS

TRIG INPUT

Connector: Rear panel BNC
Impedance: 10kΩ, ±5%
Threshold Level: TTL
Min Pulse Width: 20ns
Slope: Positive or negative going edge.

10 MHz REFERENCE INPUT

Connector: Rear panel BNC
Impedance: 10kΩ, ±5%
Threshold Level: TTL
Duty Cycle: 50%, ±5%

AM INPUT

Modulation Input: Rear panel BNC
Impedance: 1MΩ, ±5%
Max Input Voltage: 12V

SAMPLE CLOCK INPUT

Connector: Rear panel SMB
Input Level: ECL
Impedance: 50Ω, terminated to –2V
Range: DC to 50MHz
Min. Pulse Width: 4 ns

SYNCHRONIZATION CONNECTOR

Connector: Rear panel 9-pin DSUB
Interconnecting Cable: Optional, consult factory at the time of purchase

MODULATION

Carrier Waveform: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms
Run Modes: Continuous, Triggered, Burst and Gated
Trigger Advanced Mode: Automatic, Triggered, Gated or Software Command
Marker
Output & Level: Same as SYNC output.
Position: Programmable for selected frequency

FM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms
Carrier Frequency: Waveform dependent
Modulating Waveforms: Sine, Square, Triangle and Ramp
Modulation Source: Internal
Modulating Frequency: 1mHz to 100KHz
Deviation Range: 100mS/s to 50MS/s
Frequency Distortion: <0.1%
Resolution: 12 digits, limited by 1µHz
Accuracy: 0.1%

ARBITRARY FM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms
Carrier Frequency: Waveform dependent
Modulating Waveform: Arbitrary waveformm, 10 to 20000 waveform points
Modulation Source: Internal
Modulating Waveform
Sample Clock: 1mS/s to 2MS/s
Deviation Range: 100mS/s to 50MS/s
Frequency Distortion: <0.1%
Resolution: 12 digits, limited by 1µHz
Accuracy: 0.1%

AM

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms
Carrier Frequency: Waveform dependent
Modulation Source: External
Envelop Frequency: 1µHz to 500kHz
Sensitivity: 0V to +5V (5Vp-p) produce 100% modulation
Modulation Depth: 0% to 100%

FSK

Carrier Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian, Exponential, Repetitive Noise, DC and Arbitrary waveforms

Specification
100MS/s Dual-Channel Arbitrary Waveform / Function Generator

Model WW1072

Carrier Sample
Clock Range: 100mS/s to 100MS/s
Modulation Source: External, Rear panel Trigger input BNC.
Low level: Carrier sample clock
High level: Hop frequency
Baud Rate Range: 1bits/sec to 10Mbits/sec
Minimum FSK Delay: 1 waveform cycle + 50ns

RAMPED FSK

Ramp Time Range: 10µs to 1s
Resolution: 3 digits
Accuracy: ±0.1%

SWEEP

Carrier Waveforms: Sine, Square, Triangle, Ramp, Arb
Sweep Step: Linear, Logarithmic or Arb
Sweep Direction: Up or down
Sweep Range: 100mS/s to 100MS/s
Sweep Time: 1ms to 1000s
Resolution: 9 digits
Accuracy: ±0.1%

TRIGGERING CHARACTERISTICS

System Delay: 1 Sample Clock+150ns
Trigger Start, Stop, Phase Control: 0 to 1Meg points, (2Meg optional)
Resolution: 4 points
Breakpoint Error: ±4 points
Breakpoint Source: External (Rear Panel Trigger Input BNC), Manual, or software command through Ethernet, USB or GPIB

EXTERNAL

Connector: Rear panel BNC
Level: TTL
Slope: Positive or negative
Frequency: DC to 2MHz
Impedance: 10kΩ, DC coupled

INTERNAL

Range: 100mHz to 2MHz
Resolution: 14 digits, limited by 1µHz
Accuracy: 0.1%

MANUAL

Source: Soft trigger command through the front panel or external interface

GATED MODE External signal enables generator. First output cyclesynchronous with the active slope of the triggering signal. Last cycle of output waveform always completed

BURST

Waveforms: Sine, Triangle, Square, Pulse, Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC, Arb
Counted Burst Cycles: 1 to 1Meg, programmable
Source: Manual, Internal or External

MULTI-INSTRUMENT SYNCHRONIZATION

Description: Multiple instruments can be connected together and synchronized to provide multi-channel synchronization.

PHASE (LEADING EDGE) OFFSET

Description: Leading edge of master output trails the leading edge of the slave output by a programmable number of points. Each slave can be programmed to have individual offset.
Range: 0 to 1Meg points (2Meg optional)
Resolution and Accuracy: 4 point
Initial Skew: < ±15ns, depending on cable length and quality, typically with 0.5 meter coax cables

GENERAL

Power Supply: 85 to 265V, 48 to 63Hz,
Power Consumption: 60W max
Display: Color LCD, 3.5" reflective, 320 x 240 pixels, back-lit
Operating temperature: 0 - 50°C
Humidity (non-condensing): 11°C to 30°C: 85 %
31°C to 50°C: 75 %
Storage temperature: -40°C to + 70°C.
Interface: Ethernet 10/100, USB 2.0 and GPIB standard
Language: IEEE-488.2 - SCPI – 1993.0
Dimensions: 212 x 88 x 415mm (WxHxD)
Weight: Approximately 7 lb
Safety: EN61010-1, 2nd revision
EMC: CE marked. Designed to meet VDE 0411/03.81 and UL 1244
Reliability: MTBF per MIL-HDBK-217E, 25°C, Ground Benign
Workmanship Standards: Conform to IPC-A-610D
Supplied Accessories: Power Cord, USB cable, CD containing Operating Manual, ArbConnection software and developer libraries.
Warranty: 5 years standard

ORDERING INFORMATION

MODEL	WW1072
100MS/s Dual-Channel ArbitraryWaveform Generator	

OPTIONS

2Meg:	2 Meg Memory

ACCESSORIES

Sync cable:	Sync cable for multi instrument synchronization
S-Rack mount:	19" Single Rack Mounting Kit
D-Rack mount:	19" Dual Rack Mounting Kit
Case Kit:	Professional Carrying Bag

Note: Options and Accessories must be specified at the time of your purchase.