1.2GS/s Single-Channel Arbitrary Waveform Generator





MODEL WW1281

- Single-channel 1.2GS/s waveform generator
- Sine and Square wave to 400MHz
- 12-Bit amplitude resolution
- 8M waveform memory, 16M memory, optional
- Differential outputs to 8Vp-p
- Square wave transition times of less than 500ps
- Two serial bits to generate complex digital strings
- FM, Arbitrary FM, FSK, PSK, and Sweep modulations
- Powerful sequencer allowing efficient, long waveforms with multiple sequences, fast coherent segment switching and coded segment hop connector
- Multiple run modes including gated, triggered and bursts
- Trigger delay inhibits the start of the output waveform
- User friendly 3.5" color LCD display
- Multi-Instrument synchronization
- DDS technology for low phase noise and tone separation
- Ethernet 10/100, USB 2.0 and GPIB interfaces
- ArbConnection software for easy waveform creation & control

The 1281, Single Channel Frequency Agile Waveform Synthesizer, combines industry-leading 1.2GS/s sample clock performance, frequency agility and modulation capability in a stand-alone package. Capable of generating waveforms from 1Hz to 400MHz the 1281 supports test stimulus demands of the information age, applications requiring clear tone separation and less than 500ps transition time.

High Speed Function Generator

The 1281 generates 10 standard waveforms such as sine, square and triangle waves. Sine and square waves can be generated at frequencies up to 400MHz, making the 1281 the fastest function generator available today. The internal reference oscillator provides 1 ppm accuracy and has excellent long-term stability. An external frequency reference can be used if greater accuracy or stability is required.

1.2GS/s Performance

As products, which use increased signal bandwidths evolve, test equipment and systems must keep pace with this trend. The 1281's

with its high sample rate generator assures that this test tool does not lag the outbreak of new technology. Combined with unsurpassed price tag, the 1281 is the logical choice for future test technologies.

16M Memory

The 1281 offers 8M words of waveform memory and 16M word as an option for generating extremely long arbitrary waveforms. In addition, the memory can be divided into as many as 16k segments, which can be looped and linked in many different ways. Harnessing such memory to the high speed performance of the 1281 provides breakthrough solution for many applications.

Powerful Segmentation and Sequencing

Solving almost every complex application, powerful segmentation and sequencing produce a nearly endless variety of complex waveforms. The waveform memory can be divided into multiple waveform segments and sequenced in user-selectable fashion to create complex waveforms that have repeatable segments and thus saving precious memory space.

Five different advance modes are available for the 1281 to step through the sequence table, including stepped and mixed advance modes and thus increasing efficiency of the test system. In addition, a rear panel connector has 8-bit control of segment replay providing additional and extremely useful hardware tool to hop between segments.

Two Serial Digital Output Bits

Standard with the 1281 are two digital outputs, placed on the rear panel and supporting applications that require simultaneous generation of analog waveforms and digital streams. The instrument's sample clock generator drives both front and rear outputs and therefore provides jitter-free simulation of analog signals combined with serial data streams. The serial data is generated from the digital outputs at baud rates up to 2.4GHz.





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Frequency Agility

Decrypting radio transmission often employs frequency hopping. The 1281 provides breakthrough technology that allows simulation of 2-level decrypted code as easy as simply writing two frequencies. The frequency hop mode is fast, coherent and provides a great tool for simulating code transmission without loosing speed and/or integrity.

Accurate Output

As standard, the instrument is equipped with an internal frequency reference that has 1ppm accuracy and stability over a period of 1 year. A rear-panel input for an external frequency reference is available for applications requiring greater accuracy or stability. Using the external reference input and an external controlling host computer will enhance frequency setting resolution to an amazing 14 digits of resolution.

Modulation Capability

Agility and modulation capabilities open the way for limitless array of applications. Not only that the 1281 can generate any shape and style of waveforms, but modulation such as FM, FSK, PSK, and Sweep are easily employed without sacrificing the power of the instrument control and output run modes.

Multi-Instrument Synchronization

Multiple 1281 can be synchronized using a Master-Slave arrangement allowing users to benefit from the same high quality performance for their multi-channel needs. This arrangement can convert two 1281s into a two-channel system that is phase-coupled for applications such as I & Q and more.

Easy to use

Large and user-friendly 3.5" 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 simplify 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.

Automated External Self-Calibration

Usually, calibration cycles in the industry range from one to three years where instruments are sent to a service center, opened to allow access to trimmers, calibrated and certified for repeated usage. In contrast, the innovative advanced technology implemented in these systems allows calibration from any interface, USB, GPIB or LAN. Calibration factors are stored in a flash memory and thus eliminating the need to open instrument covers.

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.





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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 handson 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 Woder 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.

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Specification 1.2GS/s Single-Channel **Arbitrary Waveform** Generator

Model WW1281





STANDARD WAVEFORMS

Waveforms: Sine, Triangle, Square, Pulse,

Ramp, Sinc (Sine(x)/x), Gaussian Pulse, Exponential Fall, Rising Pulse, Noise, DC.

Frequency Range: Waveform dependent Internal synthesizer Source:

SINE

Frequency Range: 50 Hz to 400 MHz, continuous;

50 Hz to 125 MHz, triggerable.

Start Phase Range: 0 to 360°

Harmonics Distortion and Spurious at 1Vpp:

DC to 10MHz -50dBc 10 to 50MHz -45dBc 50 to 125MHz -40dBc 125 to 300MHz -30dBc 300 to 400MHz -25dBc

Total Harmonic Distortion:

DC to 100kHz

Flatness CW (1kHz):

DC to 200MHz 0.7dB 200MHz to 400MHz 4dB

DC to 400MHz 1dB (with option 1)

Phase Noise - Internal SCLK

100Hz Offset -83dBc/Hz 1kHz Offset -85dBc/Hz 10kHz Offset -85dBc/Hz 100kHz Offset -112dBc/Hz 1MHz Offset -132dBc/Hz

Phase Noise - External SCLK

100Hz Offset -105dBc/Hz 1kHz Offset -105dBc/Hz 10kHz Offset -122dBc/Hz 100kHz Offset -140dBc/Hz -146dBc/Hz 1MHz Offset

TRIANGLE

Frequency Range: 50 Hz to 125 MHz

Start Phase Range: 0 to 360°

SQUARE

Frequency Range: 50 Hz to 400 MHz Duty cycle Range: 1.0% to 99.0%

Rise/Fall time: <700 ps (typically <600 ps)

Aberration: <10% **PULSE**

Frequency Range: 50 Hz to 125 MHz

Delay, Rise/Fall Time,

High Time: Adjustable with 1 ns resolution (each independently)

Rise/Fall time: <700 ps (typically <600 ps) <10% Aberration:

RAMP

Frequency Range: 50 Hz to 125 MHz

Delay, Rise/Fall

Adjustable with 1 ns resolution Time:

(each independently)

SINC (Sine(x)/x)

Frequency Range: 50 Hz to 125 MHz "0 Crossings" 4 to 100 cycles

GAUSSIAN

Frequency Range: 50 Hz to 125 MHz

Time Constant 10 to 200

EXPONENTIAL PULSE

Frequency Range: 50 Hz to 125 MHz Time Constant: -100 to 100

NOISE

Bandwidth: 250MHz

DC

-2V to +2V Range:

ARBITRARY WAVEFORMS

50 kS/s to 1.1 GS/s Sample Rate: (typically 1.2 GS/s)

Vertical Resolution: 12 bits

Waveform Memory: 8 Meg points standard,

16 Meg points optional

MEMORY SEGMENTATION

No. of Segments: 1 to 16k Min. Segment Size: 64 points

Resolution: 16 points size increments from

16 to 8M points (16M optional)

CODED SEGMENT HOPS

Description: Provides fast and coherent

selection between seaments. Output hops between

segments

Source: 9-pin connector. 8 pins are

for code selection and 1 is for validating the code.

Segment Hops: 8-bits, 256 maximum

Hop Delay: 3 periods max Input Level: TTL, high = true

SEQUENCED ARBITRARY WAVEFORMS

Operation:

Segments may be linked and repeated in a user-selectable order to generate extremely long waveforms. Segments are advanced using either a command or a trigger

ADVANCE MODES

Automatic Sequence

Advance: No triggers required to step

from one segment to the next. Sequence is repeated continuously through a preprogrammed 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.

Multi Single

Sequence Advance: Current segment is sampled

to the end of the segment. If repeats are programmed, each trigger stimulates one repeat. At the end of the repeat count, the next trigger advances to next segment. Control input is TRIG

IN connector.

Mixed Sequence

Steps are marked with advance Advance: bit. Steps with "0" bit are stepped

through automatically; Steps with "1" bit wait for a trigger to advance to the next step.

Advance Source: External, Internal or software

Sequencer steps: From 1 to 4096 Segment loops: From 1 to 1 Meg

The measure of perfection

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Min. Segment **Duration:**

400ns for more than one loop Multi Sequence: Selectable sequence from 1 to 10

Minimum Segment

Size in a Sequence: 16 points

DIGITAL OUTPUTS (B13/B14)

Description: Bits 13/14 (LVPECL level) are part of the arbitrary waveform,

however, can be programmed separately without any effect on the main arbitrary

waveform

Update Frequency: 50kpps to 1200Mpps

Position and Width: Programmable

COMMON CHARACTERISTICS

FREQUENCY

Resolution: 9 digits

Accuracy and Stability: Same as reference

10MHz REFERENCE CLOCK

0.0001% (1 ppm TCXO) initial Internal tolerance over a 19C to 29C

temperature range; 1ppm/C below 19C and above 29C; 1ppm/year aging rate

10 MHz TTL, 50% 2%

duty cycle

AMPLITUDE

External

Amplitude:

Resolution:

Single Ended 50 mV to 2 Vp-p, into 50Ω ;

Double into open circuit Differential Outputs 100 mV to 4 Vp-p, into high Z;

Double into open circuit 4 digits

Accuracy (1kHz): $\pm (3\% + 5 \text{ mV})$

OFFSET

Range: 0 to ±1 V Resolution: 4 digits Accuracy: $\pm(3\% + 50 \text{ mV})$

FILTERS

50 MHz, 3-pole Bessel Type:

125 MHz, 3-pole Bessel

OUTPUTS

MAIN OUTPUT

Differential, Channel 1 normal Type:

and Channel 2 inverse Connectors: Two Front panel SMA's Impedance: 50Ω nominal, each output Protection: Protected against temporary short to case ground

SYNC / MARKER OUTPUT

Connector: Front panel SMA

Level: >2 V into 50Ω , 3V nominal into high impedance

Protection: Protected against temporary short to case ground

Type: Generates sync pulse, which is

synchronous with the output waveform in all functions and modes. In FM and sweep modes only, this output generates a marker at designated frequencies.

Validators:

BIT Pulse width is 16-points wide: SCOM Pulse width is less than 16-

points wide;

LCOM Pulse starts at the beginning of

the sequence and ends before the last step of the segunce;

Position: Point 0 to n, Programmable with 16-point resolution

SAMPLE CLOCK OUTPUT

Connector: Part of the Synchronization

connector Level: 150mV rms

DIGITAL BIT OUTPUTS B13/B14

Connectors: Two rear-panel SMB's

Impedance: 50Ω . $\pm 1\%$

Level: LVPECL into 50Ω , terminated

to +1.3V

Protection: Protected against temporary

short to case ground

INPUTS

TRIGGER INPUT

Front panel SMS Connector: Impedance: 50Ω , $\pm 2\%$

Threshold Level: From 0V to ±5V, programmable

Damage Level: ±8V Sensitivity: 100mV Min Pulse Width: 20 ns

Slope: Positive or negative going edge.

EXTERNAL REFERENCE INPUT

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

SAMPLE CLOCK INPUT

Connector: Part of the Synchronization

connector 50 kHz to 1 GHz Range: Input Level: 50mV rms Impedance: 50Ω Damage Level: 1V rms

Min. Pulse Width: 0.5 ns **SEGMENT HOPS INPUT**

Connector: 9-pin DSUB, female Input Level: TTL, high = true

SYNCHRONIZATION CONNECTOR

Connector Type: (9W5)

Interconnecting Cable: Optional, consult factory at

the time of purchase

MODULATION

Carrier Waveform: Sinewave

Run Modes: Continuous, Triggered, Burst

and Gated

Advance Source: Automatic, triggered, burst,

gated or software command Trigger Parameters: All trigger parameters such as

level, slope, jitter, etc. apply

FΜ

Carrier Waveform: Sine wave

Carrier Frequency: 1 Hz to 400 MHz

Modulating Waveforms: Sine, square, triangle and ramp

Modulation Source: Internal

Modulating Frequency: 1 mHz to 100 kHz

Modulating Frequency

Resolution: 5 digits Accuracy: 10 ppm

Deviation Range:

100 mHz to 398 MHz

Marker:

Output and Level

Same as SYNC output. Position

Programmable for selected

frequency

ARBITRARY FM

Carrier Waveform: Sine wave

Carrier Frequency: 1 Hz to 400 MHz

Modulating Waveform: Arbitrary waveform16 to 128k

waveform points



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Modulation Source: Internal

Modulating Waveform

Sample Clock: 1 mS/s to 2.5 MS/s

Resolution: 7 digits Accuracy: 10 ppm

Marker:

Output and Level Same as SYNC output.

Position Programmable for selected

frequency

FSK

Carrier Waveform: Sine wave Carrier Frequency: 1 Hz to 400 MHz Modulation Source: External

Baud Rate Range: DC to 10Mbits/sec

PSK

Carrier Waveform: Sine wave **Carrier Frequency:** 1 Hz to 400 MHz

Modulation Source: External Resolution: Frequency of

Resolution: Frequency dependent. **Carrier phase:** 0 to 360°

Carrier phase: 0 to 360°

Baud Rate Range: DC to 10Mbits/sec

SWEEP

Marker:

Output and Level Same as SYNC output.

Position Programmable for selected

frequer

TRIGGER CHARACTERISTICS

System Delay: 1 Sample Clock+ (100 ns)
Trigger Delay: 0 to 16 Meg sample clocks

Trigger Delay

Resolution: 1 sample clock
Trigger Jitter: 1 sample clock

EXTERNAL

Input: Front panel SMA Frequency: DC to 10 MHz

Threshold Level: From 0V to ±5V, programmable

Damage Level: ±8V
Sensitivity: 100mV
Min Pulse Width: 20 ns

Slope: Positive or negative going edge.

INTERNAL

Range: 0.1 μs to 100s
Resolution: 4 digits, limited by 0.1 μs
Accuracy: 0.1%

Software:

Source: Soft trigger command through

Soft trigger

the front panel or external

interface

GATED MODE External signal enables generator. First output

generator. Hirst 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. 1 to 1Meg, programmable

Counted Burst Cycles: 1 to 1Meg, programmable **Source:** Manual, Internal or External

MULTI-INSTRUMENT SYNCHRONIZATION

Description: Two instruments can be connected together and synchronized to provide

together and synchronized to provide dual-channel synchronization. Phase (leading edge) offset between master and slave units is programmable as

well as trigger delay

PHASE (LEADING EDGE) OFFSET

Description: Leading edge of master output trails the leading edge of the slave

output by a programmable number of points.

Range: 0 to 8Meg waveform points (16Meg optional)

Resolution and Accuracy:

Accuracy: 1 waveform point <= 5 ns typically, w

<±5 ns typically, with the supplied synchronization cable

GENERAL

Power Supply: 85 to 265Vac, 47-63 Hz

Power Consumption: 60W

Front Panel Display: Color LCD, 3.5" reflective, 320 x 240 pixels, back-lit

Operating temperature: 0°C - 50°C

Humidity

(non-condensing): 11°C - 30°C 85%

31°C - 40°C 75% 41°C - 50°C 45%

Storage temperature: -40°C to + 70°C.

Interface: Ethernet 10/100, USB 2.0

and GPIB standard

Language: IEEE-488.2 - SCPI – 1993.0

212 x 88 x 415 mm (WxHxD)

Weight: Approximately 7 lb Safety: EN61010-1, 2nd revision

EMC: ENGTOTO-1, 2nd revision

CE marked. Designed to meet

VDE 0411/03.81 and UL 1244

Reliability: MTBF per MIL-HDBK-217E,

25°C, Ground Benign

Workmanship Standards:

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 WW1281

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OPTIONS

16Meg: 16 Meg Memory1dB Sine flatness filter

ACCESSORIES

S-Rack mount:
D-Rack mount:

D-Rack mount:

Case Kit:

19" Single Rack Mounting Kit
19" Dual Rack Mounting Kit
Professional Carrying Bag

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

The measure of perfection