

T3AWG3252 / T3AWG3352 Fact Sheet

High Definition Dual Channel Arbitrary Waveform Generator



Key Specifications

Model	T3AWG3252	T3AWG3352
Frequency Range (Sinewave, AFG mode)	1 μ H to 250 MHz	1 μ H to 350 MHz
Sample Rate (AWG mode, not interpolated)	1.0 GS/s	1.2 GS/s
Vertical Resolution	16 Bits	
Memory	Up to 1 Gpoint/Ch.	
Output Voltage V_{pp} (peak to peak)	12 V_{pp} (50 Ohm into 50 Ohm), 24 V_{pp} (50 Ohm into High-Impedance)	
Digital Pattern Generator (DPG)	8 Channels @ 1.0 Gbps	8 Channels @ 1.2 Gbps

Accurate and Versatile Waveforms Generation

- 16 Bit Vertical Resolution
 - ✓ Exceptional signal fidelity for developing quality products with a reduced design cycle.
- 24 V_{pp} Output Voltage and ± 12 V HW Baseline Offset for a total output voltage window ± 24 V or 48 V (50 Ohm into High Impedance)
 - ✓ Unmatched wide output voltage window enables generating challenging in amplitude large-signal waveforms.
- Waveform memory up to 1 Gpoint @Ch
 - ✓ Unmatched deep memory depth allows to store and reproduce complex pseudo-random waveforms for long play time testing.
- Mixed Signal Generation
 - ✓ Combining the 2 analog channels with 8 synchronized Digital Channels for debugging and validating digital design.
- Multifunctional solution instrument (AFG/AWG/DPG)
 - ✓ Arbitrary Function Generator, Arbitrary Waveform Generation and Digital Pattern Generation functionalities combined into one instrument.

For more information, please contact:



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High Definition Dual Channel Arbitrary Waveform Generator

AFG Operational Mode

- Improved Direct Digital Synthesis (DDS) based technology
- Fixed sampling clock



Arbitrary Function Generation
(AFG functionality)

AWG Operational Mode

- Variable Clock True-Arbitrary Technology
- Variable Sampling Clock
- Mixed Signal Generation: 2 Analog Channels and 8 Digital Channels



Arbitrary Waveform Generation
(AWG functionality)



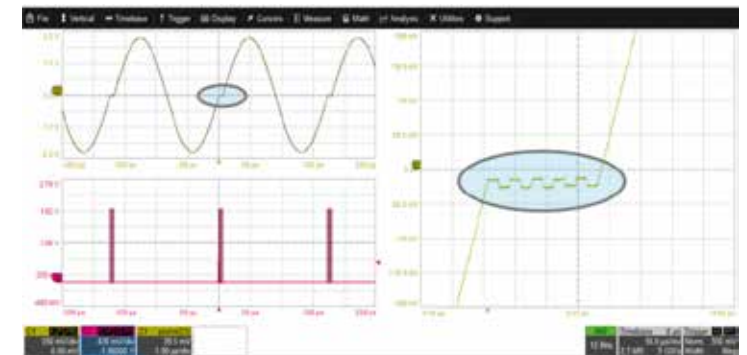
Digital Pattern Generation
(DPG functionality)

Ordering information

Product Description	Product Code
Arbitrary Waveform Generator, 2 Ch, 250 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} output, AFG/AWG, Wave Sequencing	T3AWG3252
Arbitrary Waveform Generator, 2 Ch, 350 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} output, AFG/AWG, Wave Sequencing	T3AWG3352
256 Mpt/Ch Memory Option for T3AWG3K-C	T3AWG3-M
512 Mpt/Ch Memory Option for T3AWG3K-C	T3AWG3-X
1024 Mpt/Ch Memory Option for T3AWG3K-C	T3AWG3-XL
High Voltage (12 V _{pp} on 50 Ohm) for T3AWG3K-C	T3AWG3-HV
Digital 8 Ch. Output (incl. Mini-SAS cable)	T3AWG3-8 DIG
LVDS to LVTTTL adapter. (Requires T3AWG3-8 DIG)	T3AWG3-8DIG-TTL
Mini-SAS HD to 16x SMA cable (8 LVDS output). (Requires T3AWG3-8 DIG)	T3AWG3-8DIG-SMA
3U - 19" RACKMOUNT KIT for T3AWG3K-C	T3AWG3-RACKMOUNT
Warranty extended to 3 Years	T3AWG3-W3
Cable Mini SAS HD 1m for 8-DIG (spare cable). (Requires T3AWG3-8 DIG)	T3AWG3-8DIG-MSCAB

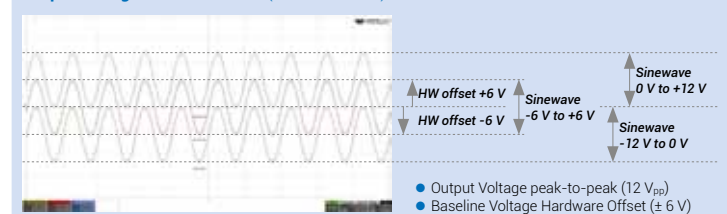
A multifunctional generator with an innovative architecture

Exceptional Signal Fidelity with 16-bit Vertical Resolution



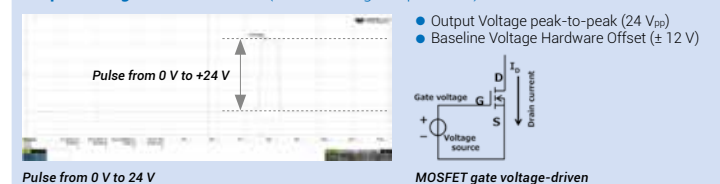
4V_{pp} Sine Wave and 5 x 10 mV_{pp} Square Wave Sequencing

Output Voltage Window: ± 12 V (50 Ω into 50 Ω)



12 V_{pp} waveform can be shifted of ±6 V from -12 V to 0 V to 0 V to +12 V

Output Voltage Window: ± 24 V (50 Ω into High Impedance)



Pulse from 0 V to 24 V