

T3AWG3K-series Fact Sheet

High Definition 2, 4 and 8 Channel Arbitrary Waveform Generator

Accurate and Versatile Waveforms Generation

- 16 Bit Vertical Resolution
 ✔ Exceptional signal fidelity for developing quality products with a reduced design cycle.
- up to 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, 4 or 8 analog channels with 8, 16 or 32 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.

Standard warranty is one year (3 year optional)

Key Specifications

Model	T3AWG3252	T3AWG3352	T3AWG3254	T3AWG3354	T3AWG3258	T3AWG3358
# Analog Channels	2		4		8	
# Digital Pattern Channels	0-8		0-16		0-16-32	
Frequency Range (Sinewave, AFG mode)	1 µH to 250 MHz	1 µH to 350 MHz	1 µH to 250 MHz	1 µH to 350 MHz	1 µH to 250 MHz	1 µH to 350 MHz
Sample Rate (AWG mode, not interpolated)	1.0 GS/s	1.2 GS/s	1.0 GS/s	1.2 GS/s	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)					



For more information, please contact:

ADMESS

ADMESS Vertriebs GmbH
Ernst-Kiefer-Straße 9
67292 Kirchheimbolanden
Germany

Tel.: +49 (0) 6352 / 78 99 8 - 0
Telefax: +49 (0) 6352 / 78 99 8 - 20
E-Mail: info@admess.de
www.admess.de



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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



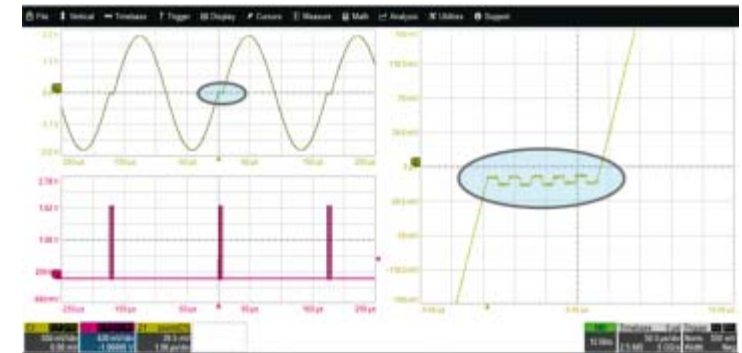
Arbitrary Waveform Generation
(AWG functionality)



Digital Pattern Generation
(DPG functionality)

A multifunctional generator with an innovative architecture

Exceptional Signal Fidelity with 16-bit Vertical Resolution

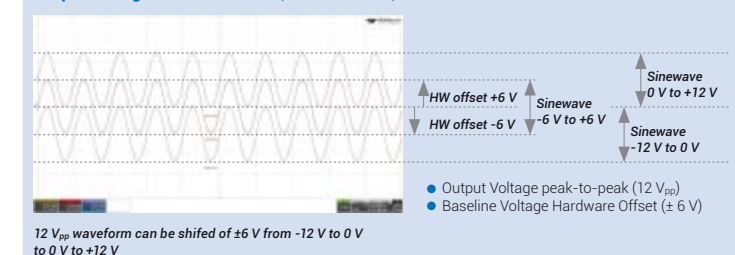


4V_{pp} Sine Wave and 5 x 10 mV_{pp} Square Wave Sequencing

Ordering information (complete info available on T3AWG datasheet)

T3AWG3252 and T3AWG3352 Product Description (2 Channels)	Product Code
Arbitrary Waveform Generator, 2 Ch, 250 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3252
Arbitrary Waveform Generator, 2 Ch, 350 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3352
256 Mpts/Ch Memory option for 2 Ch mainframe	T3AWG3-M
512 Mpts/Ch Memory option for 2 Ch mainframe	T3AWG3-X
1024 Mpts/Ch Memory option for 2 Ch mainframe	T3AWG3-XL
High Voltage (12 V _{pp} on 50 Ohm) for 2 Ch mainframe	T3AWG3-HV
Digital 8 Ch. Output (require 1 x Mini-SAS cable)	T3AWG-8 DIG
T3AWG3254 and T3AWG3354 Product Description (4 Channels)	Product Code
Arbitrary Waveform Generator, 4 Ch, 250 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3254
Arbitrary Waveform Generator, 4 Ch, 350 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3354
1024 Mpts/Ch Memory Option for 4 Ch mainframe	T3AWG3-XL-4CH
High Voltage (12 V _{pp} on 50 Ohm) for 4 Ch mainframe	T3AWG3-HV-4CH
Digital 16 Ch. Output (require 2 x Mini-SAS cables)	T3AWG3-16DIG-4CH
T3AWG3258 and T3AWG3358 Product Description (8 Channels)	Product Code
Arbitrary Waveform Generator, 8 Ch, 250 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3258
Arbitrary Waveform Generator, 8 Ch, 350 MHz, 16 bit, 128 Mpts/Ch, 6 V _{pp} , AFG/AWG	T3AWG3358
1024 Mpts/Ch Memory Option for 8 Ch mainframe	T3AWG3-XL-8CH
High Voltage (12 V _{pp} on 50 Ohm) for 8 Ch mainframe	T3AWG3-HV-8CH
Digital 16 Ch. Output (require 2 x Mini-SAS cables)	T3AWG3-16DIG-8CH
Digital 32 Ch. Output (require 4 x Mini-SAS cables)	T3AWG3-32DIG-8CH
Accessories	Product Code
Cable Mini SAS HD 1m for 8 DIG (require T3AWG3-8DIG)	T3AWG3-8DIG-MSCAB
LVDS to LVTTTL adapter (require T3AWG3-8DIG and T3AWG3-8DIG-MSCAB)	T3AWG3-8DIG-TTL
Mini-SAS HD to x16 SMA cable (require T3AWG3-8DIG)	T3AWG3-8DIG-SMA

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



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

