

T3AWG6K Series Fact Sheet

Arbitrary Waveform Generator / 2, 4 and 8 Channel Configuration



Telemeter Electronic



Sample Rate up to 12.32 GS/s in RF mode

- 16 Bit Vertical Resolution
 - ✓ Exceptional signal fidelity for developing quality products with a reduced design cycle.
- up to 5 V_{pp} Output Voltage and ±2.5 V HW Baseline Offset for a total output voltage window ±5 V or 10 V (50 Ohm)
 - ✓ Unmatched wide output voltage window enables generating challenging in amplitude large-signal waveforms.
- 4 Gpts Waveform Memory per Channel
 - ✓ Unmatched deep memory depth allows to store and reproduce complex pseudo-random waveforms for long play time testing.
- Up to 32 Digital Channel in synchronous with Analog Generation
 - ✓ Mixed Signal Generation for debugging and validating analog and digital design.
- Multifunctional solution instrument (AFG/AWG/DPG)
 - ✓ Arbitrary Function Generator, Arbitrary Waveform Generation and Digital Pattern Generation functionalities into one instrument.

Standard warranty is one year.

Key Specifications

Model	T3AWG6062	T3AWG6064	T3AWG6068
Number of Analog Channels	2	4	8
Vertical Resolution	16 bits		
Output Voltage	up to 5 V _{pp} and ± 2.5 V Baseline Hardware offset (50 Ohm into 50 Ohm)		
Sampling Rate	up to 6.16 GS/s variable clock (12.32 GS/s in RF mode) for AWG and 6.16 GS/S fixed in AFG		
Waveform Memory	4 Gpts per channel		
Digital Pattern Generator (DPG)	up to 8 Digital Channels	up to 16 Digital Channels	up to 32 Digital Channels
Waveforms Sequencing	up to 16.384 waveforms, length granularity of 1 point (> 384 Pts.)		

For more information, please contact:



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Ordering information

T3AWG6062 Product Description (2 Channel platform)	Product Code
Arbitrary Waveform Generator, 2 CH, 6 GS/s, 4,096 Mpts/Ch, 5 V _{pp} , RF mode (12 GS/s), Wave Sequencing	T3AWG6062
8 Digital Output Channels for 2 CH, 4 CH and 8 CH T3AWG6K models (require 1 x Mini-SAS cable)	T3AWG6-8DIG
T3AWG6064 Product Description (4 Channel platform)	Product Code
Arbitrary Waveform Generator, 4 CH, 6 GS/s, 4,096 Mpts/Ch, 5 V _{pp} , RF mode (12 GS/s), Wave Sequencing	T3AWG6064
8 Digital Output Channels for 2 CH, 4 CH and 8 CH T3AWG6K models (require 1 x Mini-SAS cable)	T3AWG6-8DIG
16 Digital Output Channels for 4 CH and 8 CH T3AWG6K models (require 2 x Mini-SAS cable)	T3AWG6-16DIG
T3AWG6068 Product Description (8 Channel platform)	Product Code
Arbitrary Waveform Generator, 8 CH, 6 GS/s, 4,096 Mpts/Ch, 5 V _{pp} , RF mode (12 GS/s), Wave Sequencing	T3AWG6068
8 Digital Output Channels for 2 CH, 4 CH and 8 CH T3AWG6K models (require 1 x Mini-SAS cable)	T3AWG6-8DIG
16 Digital Output Channels for 4 CH and 8 CH T3AWG6K models (require 2 x Mini-SAS cable)	T3AWG6-16DIG
32 Digital Output Channels for 8 CH T3AWG6K models (require 4 x Mini-SAS cable)	T3AWG6-32DIG
Accessories for all platforms (2, 4 and 8 Channels)	Product Code
Cable Mini SAS HD 1 m for DIG options (1x for -8DIG, 2x for -16DIG, 4x for -32DIG)	T3AWG3-8DIG-MSCAB
LVDS to LVTTTL adapter ¹⁾	T3AWG3-8DIG-TTL
Mini-SAS HD to 16 x SMA cable (8 LVDS output) ²⁾	T3AWG3-8DIG-SMA
Additional SSD – 500 GB	T3AWG3-SSD
3U – 19" RACKMOUNT KIT for T3AWG6K	T3AWG-RACKMOUNT-X

¹⁾ require T3AWG6-8DIG or T3AWG6-16DIG or T3AWG6K-32DIG and T3AWG3-8DIG-MSCAB (1x for -8DIG, 2x for -16DIG, 4x for -32DIG)

²⁾ require T3AWG6-8DIG or T3AWG6-16DIG or T3AWG6K-32DIG

Standard warranty is one year.

Digital Channels Selection Guide

	8 Digital Channels	16 Digital Channels	32 Digital Channels
Digital Options	T3AWG6-8DIG	T3AWG6-16DIG	T3AWG6-32DIG
Product Mainframe			
T3AWG6062	Yes	No	No
T3AWG6064	Yes	Yes	No
T3AWG6068	Yes	Yes	Yes
Accessories required:			
Cable mini SAS HD 1 m	1 x T3AWG3-8DIG-MSCAB	2 x T3AWG3-8DIG-MSCAB	4 x T3AWG3-8DIG-MSCAB
LVTTTL digital output ¹⁾	1 x T3AWG3-8DIG-TTL	2 x T3AWG3-8DIG-TTL	4 x T3AWG3-8DIG-TTL
mini SAS HD to x16 SMA Cable	1 x T3AWG3-8DIG-SMA	2 x T3AWG3-8DIG-SMA	4 x T3AWG3-8DIG-SMA

¹⁾ LVTTTL digital output requires Cable mini SAS

