T3AFG Fact Sheet

Function / Arbitrary Waveform Generator

TELEDYNE TEST TOOLS
Everywhereyoulook™

Debug with Confidence

5 MHz – 500 MHz

Key Specifications

Bandwidth	5 MHz, 10 MHz, 30 MHz, 40 MHz, 60 MHz, 80 MHz, 120 MHz, 200 MHz, 350 MHz, 500 MHz
Channels	1 and 2 Channel Models
Memory	16 kpts/Ch, 8 Mpts/Ch, 20 Mpts/Ch
Sample Rate	up to 2.4 GS/s
Display	T3AFG5, T3AFG10: 3.5", T3AFG30 – T3AFG500: 4.3"
Connectivity	USB Host, USB Device, LAN

Tools for Improved Debugging

• **Deep Memory** – models with up to 20 Mpts/Ch, 8 Mpts/Ch or 16 kpts/Ch depending on model.	✓ Generate complex arbitrary waveforms.
• **Wide Range of Modulation Types** – AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst, and PSK on 2 Ch models.	✓ Quickly set up modulated waveforms.
• **High Resolution** – 16 bit or 14 bit vertical resolution depending on the model.	✓ Generate waveforms with low noise and spurious signal content.
• **Bandwidth Models up to 500 MHz**	✓ Wide choice of bandwidths.
• **Built In Arbitrary Waveforms**	✓ Load and replay built in Arbitrary Waveforms.
• **User Defined Waveforms**	✓ Store and recall user defined waveforms.
• **3 Years Warranty as standard**	✓ Peace of mind.

For more information, please contact:

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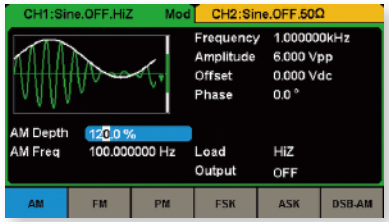
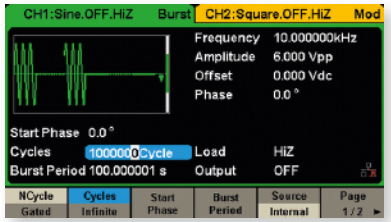
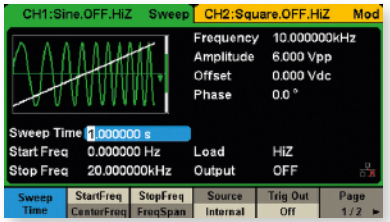


The T3AFG range of Function / Arbitrary Waveform Generators support a wide range of modulation types.



Burst mode supports 'N Cycle' and 'Gated' modes with the Burst source being configured as 'Internal', 'External' or 'Manual'.



Sweep mode supports 'Linear' and 'Log' sweep, with 'Up' and 'Down' direction, and Sweep source being configured as 'Internal', 'External' or 'Manual'.

Ordering Information

Model	Bandwidth	Channel	Vertical Resolution	Memory per Ch	Sample Rate per Ch
T3AFG5	5 MHz	1	14 Bits	16 kpts	125 MS/s
T3AFG10	10 MHz	1	14 Bits	16 kpts	125 MS/s
T3AFG30	30 MHz	2	14 Bits	16 kpts	150 MS/s
T3AFG40	40 MHz	2	16 Bits	8 Mpts	1.2 GS/s
T3AFG60	60 MHz	2	14 Bits	16 kpts	150 MS/s
T3AFG80	80 MHz	2	16 Bits	8 Mpts	1.2 GS/s
T3AFG120	120 MHz	2	16 Bits	8 Mpts	1.2 GS/s
T3AFG200	200 MHz	2	16 Bits	20 Mpts	2.4 GS/s (Interpolated)
T3AFG350	350 MHz	2	16 Bits	20 Mpts	2.4 GS/s (Interpolated)
T3AFG500	500 MHz	2	16 Bits	20 Mpts	2.4 GS/s (Interpolated)

Excellent Performance

- Bandwidths from 5 MHz to 500 MHz
- 1 or 2 Channel Models
- Up to 20 Mpts / Channel memory

Great Connectivity

- USB host port for mass storage
- USB device port (USBTMC)
- LAN port on 2 channel models

Smart Capabilities

- Sweep output carrier can be Sine, Square, Triangle and Arbitrary waveforms
- Burst output under internal or external signal control
- Waveforms types include DC
- Frequency Resolution 1 µHz
- DSB-AM: Double Sideband AM modulation Function
- Harmonic Function on 2 channel models
- T3AFG200 / T3AFG350 / T3AFG500 support PRBS output as standard
- Optional IQ signal generation on T3AFG200 / T3AFG350 / T3AFG500 models

Function	T3AFG5, T3AFG10	T3AFG30*, T3AFG40, T3AFG60*, T3AFG80, T3AFG120	T3AFG200, T3AFG350, T3AFG500
Built-in Waveforms	5 Standard, 46 Arbitrary	5 Standard, 196 Arbitrary	7 Standard, 196 Arbitrary
Input / Output	1 Waveform Output, Synchronous Signal Out, External Trigger In	2 Waveform Outputs, Counter Input, Aux In/Out, 10 MHz Clock In/Out	2 Waveform Outputs, Counter Input, Aux In/Out, 10 MHz Clock In/Out
Modulation Functions	AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst	AM, DSB-AM, FM, PM, FSK, ASK, PSK, PWM. Sweep, Burst, Harmonic	AM, DSB-AM, FM, PM, FSK, ASK, PSK, PWM. Sweep, Burst, Harmonic
Maximum Amplitude Output (Sine Wave)	10 Vpp at 50 Ohms, 20 Vpp at HiZ	< 20 MHz: 10 Vpp at 50 Ohms, 20 Vpp at HiZ > 20 MHz: 5 Vpp at 50 Ohms, 10 Vpp at HiZ *T3AFG30 and T3AFG60: < 10 MHz: 10 Vpp at 50 Ohms, 20 Vpp at HiZ > 10 MHz: 5 Vpp at 50 Ohms, 10 Vpp at HiZ	From 10 Vpp at 50 Ohms, 20 Vpp at HiZ (<40 MHz), to 640 mVpp at 50 Ohms, 1.28 Vpp at HiZ at 500 MHz. See data sheet for full specifications on each model