

# T3AFG Fact Sheet

## Function / Arbitrary Waveform Generator

### Debug with Confidence 5 MHz – 120 MHz



#### Key Specifications

Bandwidth	5 MHz, 10 MHz, 40 MHz, 80 MHz, 120 MHz
Channels	1 and 2 Channel Models
Memory	16 kpts/Ch, 8 Mpts/Ch
Sample Rate	up to 1.2 GS/s
Display	3.5" – 4.3"
Connectivity	USB Host, USB Device, LAN

#### Tools for Improved Debugging

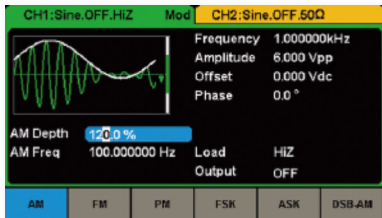
- Deep Memory – up to 8 Mpts/Ch on 40 MHz to 120 MHz models. 16 kpts on 5 MHz and 10 MHz models. ✓ Generate complex arbitrary waveforms.
- Wide Range of Modulation Types – AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst, and PSK on 2 Ch models. ✓ Quickly set up modulated waveforms.
- High Resolution – 14 Bit on 5 MHz and 10 MHz models, 16 bit on 40 MHz to 120 MHz models. ✓ Generate waveforms with low noise and spurious signal content.
- Bandwidth Models up to 120 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:

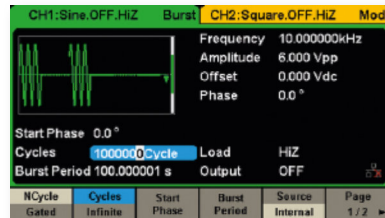


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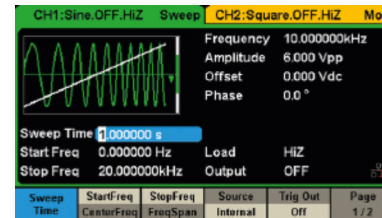
## Function / Arbitrary Waveform Generator



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	Memory per Ch	Sample Rate per Ch
T3AFG5	5 MHz	1	16 kpts	125 MS/s
T3AFG10	10 MHz	1	16 kpts	125 MS/s
T3AFG40	40 MHz	2	8 Mpts	1.2 GS/s
T3AFG80	80 MHz	2	8 Mpts	1.2 GS/s
T3AFG120	120 MHz	2	8 Mpts	1.2 GS/s

Function	T3AFG5, T3AFG10	T3AFG40, T3AFG80, T3AFG120
Built-in Waveforms	5 Standard, 46 Arbitrary	5 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
Modulation Functions	AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst	AM, DSB-AM, FM, PM, FSK, ASK, PSK, PWM, Sweep, Burst, Harmonic
Maximum Amplitude Output	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
Display Size	3.5" TFT-LCD	4.3" Touch Screen

### Excellent Performance

- Bandwidths from 5 MHz to 120 MHz
- 1 or 2 Channel Models
- Up to 8 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  $\mu$ Hz
- DSB-AM: Double Sideband AM modulation Function
- Harmonic Function on 2 channel models
- Multi-Language User Interface