

### Applications:

Fibre optic modulator drive

RF testing

### Options

Internal amplifier

Single ended output

Extended record length

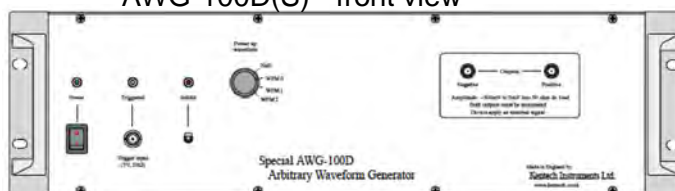


### AWG-100D(S) summary:

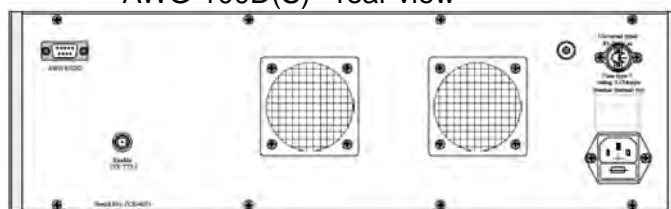
The AWG-100D(S) is an arbitrary waveform generator with an 8GSa/s sample rate. The differential output has a minimum risetime of <math><100\text{ps}</math> and the maximum record of 800 x 125ps samples gives a 100ns maximum signal duration. The generator is asynchronously triggerable and has a trigger jitter of  $\pm 10\text{ps}$  rms. An embedded controller provides an RS232 remote interface via which a PC may upload and download waveforms. Internal non-volatile memory allows the internal retention of waveforms and a front panel selector switch selects from one of three memories as the power-up waveform source. The generator can also start up with a null waveform. The output comes directly from the high speed digital to analogue converter and is a differential signal providing  $\pm 500\text{mV}$  into the two differential 50ohm loads. Note that the loads must be DC coupled - i.e. there must be no blocking capacitor in the termination path.

In order to reduce UHF clock noise the generator is supplied with low pass filters which may be fitted externally.

AWG-100D(S) - front view

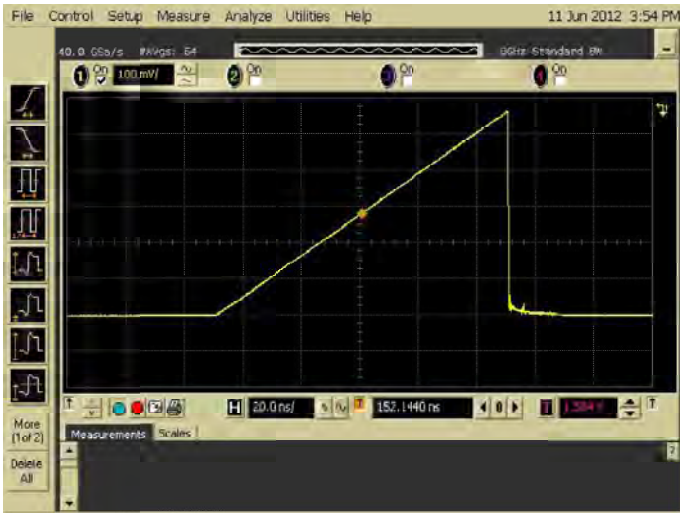


AWG-100D(S) - rear view



See [www.kentech.co.uk](http://www.kentech.co.uk)

### Typical Output Waveforms



See [www.kentech.co.uk](http://www.kentech.co.uk)

Specification:

- Trigger 5V, 50ohms, >10ns duration
- Rise/fall <100ps without external filter
- Load 50ohms differential
- Duration 100ns
- Sample rate 8GSa/s
- Number of samples 800 (1600 bytes)
- Jitter 10ps rms typical (5V trigger, 2ns rise time)
- PRF 100kHz
- Output amplitude ~0.5V, balanced outputs
- Interface RS232, 9600 baud
- Power 100-240V AC, >30VA

Front panel

- Indicators
- Power LED
- Triggered LED
- Inhibit LED

Controls

- Waveform select Rotary
- Inhibit Toggle

Connections

- Trigger BNC
- Output SMA x 2

Rear panel

- AC power IEC with integrated rocker switch
- RS232 9 way D
- Enable BNC (5V = enable)

See [www.kentech.co.uk](http://www.kentech.co.uk)