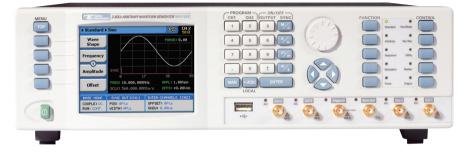


5GS/s Dual Channel Arbitrary Waveform Generators



- Dual channel 5Gs/s (10GS/s equivalent in RF mode),
 12 bit waveform generators
- Directly generate RF signals higher than 7GHz
- Extremely fast rise and fall time of under 100ps
- Multi-Nyquist zone operation, up to the 4th Nyquist zone
- Inter-channel skew control from -3ns to +3ns with 10ps resolution
- Independent or synchronized channels configurations
- Advanced sequencer for step, loop, nest and jumps scenarios
- 64M waveform memory
- AM, FM, FSK, PSK, ASK, Amp. Hop, Freq. Hop, Sweep & Chirp
- The Signal Expert Series sets new standards for high speed arbitrary waveform generators. With an analog bandwidth of nearly 7 GHz, the new Signal Expert Series can reach frequencies much higher than its sampling rate. Combining this vast analog bandwidth with multi Nyquist zone operation, the Signal Expert series is capable of solving applications well beyond baseband and into the microwave frequencies. This new technology combined with advanced arbitrary and sequencing capabilities, excellent spectral purity, configurable output modules, and advanced triggering make the new Signal Expert Series the highest performing and most cost effective AWG of its class and even beyond.

Multi-Nyquist Operation

Traditionally AWGs work only in the first Nyquist zone as signals in the higher Nyquist zones are suppressed, due to bandwidth and architecture limitations. But what if these signals were not suppressed? This would mean that with the proper filter it would be possible to generate signals well above the sampling rate of the AWG. Utilizing new technology, the Signal Expert Series offers different sampling modes that optimize performance according to the Nyquist zone of interest. For example, in RF sampling mode, since data is inverted every half a clock period the DAC sampling rate is essentially doubled and therfore it seems as if the DAC can sample up to 10GS/s. Therefore, coupled with the proper output module and sampling mode, users can generate signals more than 7GHz and well into the microwave C-band, X-band and even K-band area, while keeping excellent signal purity.

Configurable Outputs Option

Different applications require different output paths. This is why the Signal Expert Series offers a selection of various factory configured output modules. Each output module offers a different amplifier path, utilizing benefits which would match your specific application need. For example, for applications that require faster rise time

• Powerful pulse composer for analog, digital and mixed signals

- Various output amplifier modules utilized to solve numerous applications in different domains
- Smart trigger allows: trigger hold-off, detect <=> pulse width, as well as wait-for-waveform-end or abort waveform and restart
- · Built-in fast dynamic segments and sequences hop control
- Two differential markers per channel with programmable positions, width and levels
- User friendly GUI & Remote control through LAN, USB & GPIB
- Store/recall capability on memory stick or 4GB internal memory
- Multi instrument synchronization

and higher bandwidth, one can order the DC output module, which offers 1.2Vpp with <100ps rise time and 3GHz bandwidth. The default configuration is the direct DAC output path which offers 540mVpp, <85ps rise time and 4GHz bandwidth.

Signal Integrity and Purity

One of the most important requirement in today's test and measurement applications is high signal quality. With a typical SSB phase noise of <-120dBc at 100MHz, 10 kHz carrier offset and with exceptionally good SFDR of <-70dBc at 1GHz carrier, Tabor's Signal Expert Series' unique platform delivers one of the best quality signals available on the market today, answering the ever-growing demand for clear and precise signals.



5GS/s Dual Channel Arbitrary Waveform Generators

IQ Generation

The ability to generate IQ signals is fundamental for any RF or communication engineer. With the advanced arbitrary capabilities and highly synchronized channels, the SE is ideal for generating digital modulations. The new Signal Expert Series offers excellent EVM performance even at 1.8GHz IQ bandwidth with less than 1% EVM for a 16QAM modulation, making it, by far, the best performance for price IQ source available in the market today.

Common or Separate Clocks

Need a dual or a single channel unit... why choose? With the new Signal Expert Series you can have it all. The Signal Expert Series has up to two output channels, which can either operate independently, or synchronized to share the same sample clock source. As separate channels, one has the advantage of having up to two separate instruments in one box, with each having the ability to be programmed to output different function shapes, frequency, amplitude levels and/or to operate in different run modes. Alternatively, the advantage of having synchronized channels with less than 10ps skew and skew control is very significant in applications that require an accurate and controlled phase between the channels, which is ideal for many X-Y modes and I&Q output applications.

Smart Trigger

Until now, you've been forced to trigger on a specific event. Tabor's all-new SmarTrigger feature was designed to enhance the trigger capability and facilitate wider flexibility of a specific pulse event. It allows triggering on either a pulse having a larger pulse width than a programmed time value (time), or even on a pulse having a pulse width between two limits (<>time). In addition, the SmarTrigger has a hold-off function, in which the output is held idle after the first trigger and starts a waveform cycle only with the first valid trigger after a hold-off interval has lapsed, allowing you to solve endless "negotiation" scenarios.

Powerful Segmentation and Sequencing

Solving almost every complex application, powerful segmentation and sequencing produces a nearly endless variety of complex waveforms. The waveform memory can be divided into multiple waveform segments and sequenced in user-selectable fashion to create complex waveforms that have repeatable segments, jump and nest, saving you precious memory space. The Signal Expert also allows you to generate up to 1000 sequence scenarios and sequence between them to generate an even higher level of flexibility in waveform creation.

Programmable Differential Markers

The Signal Expert series is equipped with two programmable differential markers per channel. Differential simply means outstanding signal integrity for high frequencies, whereas the programmability allows you to set position, width, delay and amplitude for any required peripheral triggering need. While bench usage enables setting only one marker position, you can set multiple markers and program different marker properties for each transition instance remotely, allowing various triggering profiles.

Pulse / Pattern Creation

Generating complex pulse trains has never been easier. The Pulse Composer is a powerful built-in tool that converts the Signal Expert Series to a very sophisticated Pulse/ Pattern Generator, allowing to create literally any complex pulse train / pattern, whether it's a single pulse, multi-level, linear-points, initialization or preamble pattern definition. user-defined or even standard random patterns with programmable resolution, so it doesn't matter if your application is radar communications, nanotechnology or serial bus testing, the pulse/pattern composer is the right tool for your application. Moreover, all the Signal Expert Series advanced trigger modes are applicable, hence one can choose to use the "step" mode to advance every bit independently or the "once" mode to advance a complete data block in one trigger event, enabling even more applications, such as trigger, clock and data protocols.

Dynamic Segment / Sequence Control

Working in the real-time world and need fast waveform switching? The Signal Expert series has a rear panel control designed specifically for that. Having the dynamic control feature, in effect, can serve as replacement of the sequence table where the real-time application can decide when and for how long a waveform will be generated. For much more complex applications, this same input may serve as a dynamic switch for complete sequences, creating real-life scenarios for real-time applications.

Multiple Environments to Write Your Code

The Signal Expert Series comes with a complete set of drivers, allowing you to write your application in various environments including Labview, CVI, C++, VB, Python and MATLAB. You may also link the supplied dll to other Windows-based API's or use low-level SCPI commands to program the instrument, regardless of whether your application is written for Windows, Linux or Macintosh operating systems.

Easy to Use

Large and user-friendly 4" backlit color LCD display facilitates browsing through menus, updating parameters and displaying detailed and critical information for your waveform output. Combined with numeric keypad, ten quick-link function & run mode buttons, cursor position control and a dial, the front panel controls simplify the often complex operation of an arbitrary waveform generator.

WDS Wave Design Studio

WDS is a powerful software package that allows you to easily design any type of waveform and control the instrument functions, modes and features via a graphical user interface (GUI). Whether you need to generate output using a built-in waveform, a hand sketched or played back waveform, a pulse pattern, a serial data string, a modulated carrier or even an equation, WDS provides you the editing tool which makes virtually any application possible.

5GS/s Dual Channel Arbitrary **Waveform Generators** Specification

CONFIGURATION

Output Channels	1/2, Synchronized/fully separated	
STANDARD WAVEF	STANDARD WAVEFORMS	
Туре:	Sine, triangle, square, ramp, pulse, sin(x)/x, exponential rise, exponential decay, gaussian, noise and DC.	
Frequency Range:	-	
Sine	1Hz to 2.5GHz	
Square, Pulse	1Hz to 1.25GHz	
All others	1Hz to 300MHz	
PULSE		
Pulse Mode: Polarity: Period: Resolution: Pulse Width: Rise/Fall Time: Fast	Single or double, programmable Normal, inverted or complement 800ps to 1.6s 200ps 200ps to (1.6s-200ps) 200ps (typical < 150ps)	
Linear	200ps to (1.6s-200ps)	
Delay: Double Pulse Delay: Amplitude Range:	200ps to (1.6s-200ps) 1ns to 1s	
DAC Module DC Module High/Low Levels:	50mVp-p to 0.54Vp-p into 50Ω 50mVp-p to 1Vp-p into 50Ω	
DAC Module	-0.27 to +0.27 V	
DC Module	-0.75 to +0.75 V	
NOTES:		
1. All pulse paramet	ters, except rise and fall times,	

- may be freely programmed within the selected pulse period provided that the ratio between the period and the smallest incremental unit does not exceed the ratio of 32,000,000 to 1.
- 2. Rise and fall times, may be freely programmed provided that the ratio between the rise/fall time and the smallest incremental unit does not exceed the ratio of 1,000,000 to 1.
- 3. The sum of all pulse parameters must not exceed the pulse period setting.

PULSE / PATTERN COMPOSER

MULTI-LEVEL / LINE	AR-POINTS
Number of Levels: Dwell Time: Transition type: Memory: Amp. Resolution: Time Resolution:	1 to 1000 400ps to 1s Fast or Linear 100k 4 digits 200ps to 100ns (auto or user)
PATTERN	
Pattern Source:	PRBS or user-defined

Pattern Source.	PRDS OF USEF-GEITTEG
PRBS Type:	PRBS7, PRBS9, PRBS11,
	PRBS15, PRBS23, PRBS31,
	USER

Data Rate: Number of Levels: High/Low Levels: Resolution: Loops: Preamble: Length:	1Bit/s to 1GBit/s 2, 3, 4, 5 ±0.27V DAC ±0.75V DC 4 digits 1 to 16e6 1 to 16e6 1 to 16e6
ARBITRARY WAVEFO	ORMS
Sample Rate: Vertical Resolution: Waveform Memory: Min. Segment Size: Resolution: No. of Segments: Waveform Granularity: Dynamic control: Jump Timing:	50MS/s to 5GS/s (6GS/s typ) 12 bits 64M points optional 384 points 32 points 1 to 32k 1 point Software command or rear panel segment control port Coherent or asynchronous
SEQUENCED WAVE	FORMS
Multi Sequence: Sequencer Steps: Segment Loops: Sequence Loops: Step Advance Modes:	1 to 1,000 unique scenarios 3 to 49,152 steps. 1 to 16M cycles, each segment 1 to 1M ("Once" mode only) Continuous, once (x "N") and stepped
SEQUENCED SEQUE	NCES
Sequence Scenarios:	1 Scenario
Dynamic Control: Table Length: Advance Control: Sequence Loops:	Software command or rear panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles
Table Length: Advance Control:	panel sequence control port 3 to 1k steps Continuous, once and stepped
Table Length: Advance Control: Sequence Loops:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles
Table Length: Advance Control: Sequence Loops: MODULATION	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles
Table Length: Advance Control: Sequence Loops: MODULATION COMMON CHARACT Carrier Waveform: Carrier Frequency:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles ERISTICS Sine, square, triangle 10kHz to 2.5GHz
Table Length: Advance Control: Sequence Loops: MODULATION COMMON CHARACT Carrier Waveform: Carrier Frequency: Modulation Source:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles ERISTICS Sine, square, triangle 10kHz to 2.5GHz
Table Length: Advance Control: Sequence Loops: MODULATION COMMON CHARACT Carrier Waveform: Carrier Frequency: Modulation Source: FM Modulation Shape: Modulation Freq.:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles ERISTICS Sine, square, triangle 10kHz to 2.5GHz Internal Sine, square, triangle, ramp 100Hz to 250MHz 10MHz to 1.25GHz
Table Length: Advance Control: Sequence Loops: MODULATION COMMON CHARACT Carrier Waveform: Carrier Frequency: Modulation Source: FM Modulation Shape: Modulation Freq.: Deviation Range:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles ERISTICS Sine, square, triangle 10kHz to 2.5GHz Internal Sine, square, triangle, ramp 100Hz to 250MHz 10MHz to 1.25GHz
Table Length: Advance Control: Sequence Loops: MODULATION COMMON CHARACT Carrier Waveform: Carrier Frequency: Modulation Source: FM Modulation Shape: Modulation Freq.: Deviation Range: FSK / FREQUENCY H FSK Baud Rate: Hop Table Size: Hop Type: Dwell Time Mode: Dwell Time:	panel sequence control port 3 to 1k steps Continuous, once and stepped 1 to 1,000,000 cycles ERISTICS Sine, square, triangle 10kHz to 2.5GHz Internal Sine, square, triangle, ramp 100Hz to 250MHz 10MHz to 1.25GHz HOPPING 100mbps to 1Gbps 2 to 256 Fast or Linear Fixed or programmable per step 1ns to 10s

o o i i			
Sweep Direction:	Upord		
Sweep Time: Modulation Shape:	Pulse	o 9.999ms	
Pulse Repetition:	i dise		
Range	200ns t	o 20s	
Resolution	3 digits		
Accuracy	100ppn	1	
AM			
Modulation Shape:	Sine, sc	juare, triangle, ramp	
Modulation Freq.:		o 100MHz	
Modulation Depth:	0 to 200)%	
ASK / AMPLITUDE H	IOPPING		
ASK Baud Rate:		os to 1Gbps	
Hop Table Size:	2 to 256		
Hop Type: Dwell Time Mode:	Fast or Eixed or	programmable per step	
Dwell Time:	1ns to 1		
Resolution	1ns 10 1		
COMMON CHARACT	FERISTICS	3	
FREQUENCY			
Resolution:	12 digit	s	
Accuracy/Stability:	Same a	s reference	
ACCURACY REFERE	NCE CLO	СК	
Internal	1 ppm f	rom 19°C to 29°C;	
		C below 19°C or above	
		ppm/year aging rate	
External		Same as accuracy and stability of the external ref.	
OUTPUTS	Stability		
MAIN OUTPUTS			
Type of output:	Single-	ended ⁽¹⁾ or differential	
Impedance:	50Ω typ		
Connectors:		anel SMAs	
DAC OUTPUT MODU	JLE (DEFA	AULT)	
Couvelineu			
Coupling: Amplitude control	(2)	AC-coupled	
Range, single-end		400 mV to 540 mV	
Range, differentia		800 mV to 1080 mV	
Resolution		4 digits	
Accuracy, (offset = 0 V)		±(1% +5 mV)	
RMS Jitter (typical): Phase Noise (typical,@10kHz) ⁽⁵⁾ :		<1psec	
		-120 dBc/Hz	
Bandwidth (3 dB) ⁽³⁾ :		4 GHz	
IMD3 ⁽⁴⁾ :	D	-70dBc	
Harmonics ⁽⁹⁾ (typica Up to 650 MHz	17	<-65 dBc	
650 MHz to 2.5 GF	17	<-55 dBc	
SFDR (NRZ Mode, ty		. 55 000	
Up to 625 MHz		<-80 dBc	

TABOR ELECTRONICS

MODELS SE5082

5GS/s Dual Channel Arbitrary Waveform Generators **Specification**

625 MHz to 1.5 GHz 1.5 GHz to 2.5 GHz	<-65 dBc <-60 dBc
DC OUTPUT MODULE	
Coupling: Amplitude control ⁽²⁾ Window, single-ended ⁽⁸⁾ Window, differential Range, single-ended Range, differential Resolution Accuracy, (offset = 0 V) Offset control ⁽²⁾ Range	DC-coupled -0.75 V to 0.75 V -1.5 V to 1.5 V 100 mV to 1.2 Vp-p 200 mV to 2.4 Vp-p 4 digits ±(1% +5 mV) -500 mV to +500 mV
Resolution Accuracy	4 digits ± (5% +5 mV)
Rise/fall time, (typical, 20% to 80%): Overshoot (typical): RMS Jitter (typical): Phase Noise (typical): Dhase Noise (typical): Bandwidth (3 dB) ⁽³⁾ : Harmonics ⁽⁶⁾ (typical): Up to 650 MHz 650 MHz to 1.6 GHz 1.6 GHz to 2.5 GHz	<100 ps, @0.6-1.2Vpp 6%,@0.6-1.2Vpp <1psec -120 dBc/Hz 3 GHz <-60 dBc <-55 dBc <-45 dBc
SFDR (NRZ Mode, typical):	Up to 650 MHz

650 MHz to 1.5 GHz 1.5 GHz to 2.5 GHz

NOTES:

- 1. The unused output must be terminated with 50Ω to ground
- 2. specified into 50Ω , levels double into high impedance

<-80 dBc

<-70 dBc

<-58 dBc

- 3. Calculated bandwidth for NRZ mode
- 4. 400 MHz±1MHz Arbitrary Mode, DAC, NRZ Mode with 4.992 GS/s clock
- 5. Amplitude=540 mVp-p, offset=0 V, SCLK=4.5 GS/s, arbitrary 32 points sine waveforms, typical values
- 6. 1 Vp-p, Offset=0 V, SCLK=5 GS/s, sine
- waveform, typical values measured using balun 7. Amplitude=1 Vp-p, offset=0 V, SCLK=4.5
- GS/s, arbitrary 32 points sine waveforms, typical values
- 8. Exceeding the amplitude window is allowed but may cause excessive signal distortion
- 9. 540 mVp-p, Offset=0 V, SCLK=5 GS/s, sine waveform, typical values measured using balun

MARKER OUTPUTS

4

Number of Markers:	Two markers per channel
Type:	Differential (+) and (-) outputs
Connectors:	SMB
Skew Between	
Markers:	100ps, typical
Impedance:	50Ω

Amplitude Voltage:

Amplitude Voltage:	
Window	0V to 1.25V, single-ended; 0V
Louidouol	to 2.5V, differential
Low level	0V to 0.8V, single-ended; 0V to 1.6V, differential
High level	0.5V to 1.25V, single-ended;
riigirievei	0V to 2.5V, differential
Resolution:	10mV
Accuracy:	10% of setting
Width control:	2 SCLK to segment length;
Position control:	
Range	0 to (segment length-4)
Resolution	4 points
Initial delay:	3.5ns±1 sample clock (Output to marker)
Variable delay:	
Control	Separate for each channel
Range	0 to 3ns
Resolution	10ps
Accuracy Rise/Fall Time:	±(10% of setting +20ps) <1ns, typical
	Ciris, typical
SYNC OUTPUT	
Connector:	Front panel SMA
Sourc e:	Channel 1 or channel 2
Type:	Single ended
Waveform Type:	
Pulse	32 points width
WCOM	Waveform complete
Impedance:	50Ω
Amplitude:	1.2V, typical; doubles into high impedance
Variable Position Cor	
Range	0 to (segment length-32)
Resolution	32 points
Rise/Fall Time:	2ns, typical
Variable Width contr	
Range Resolution	32 points to (segment length-32) 32 points
REFRENCE CLOCK O	
Connector:	Rear panel BNC
Frequency:	100 MHz if using internal
	reference, 10MHz or 100MHz
Output impedance:	if using external reference 50Ω, typical
Output voltage:	1 Vp-p
INPUTS	
TRIGGER INPUT	
	Front nanol SMA
Connector:	Front panel SMA
Input Impedance: Polarity:	10kΩ or 50Ω, selectable Positive, negative, or both
Damage Level:	±20Vdc
Frequency Range:	0 to 15MHz
Trigger Level Contro	
Range	-5V to 5V into 50Ω;
	-10V to 10V into 1k Ω

Resolution Accuracy Sensitivity Min. Pulse Width:	12 bit (2.5mV) ±(5% of setting + 2.5mV) 0.2Vp-p 10 ns
EVENT INPUT	
Connector: Input Impedance: Polarity: Damage Level: Frequency Range: Trigger Level Contro	Rear panel BNC 10kΩ typical Positive, negative or either ±20Vdc 0 to 15MHz
Range Resolution Accuracy Sensitivity Min. Pulse Width:	-5V to 5V 12 bit (2.5mV) ±(5% of setting + 2.5mV) 0.2 Vp-p minimum 10 ns
SEQUENCE/SEGMEN	IT CONTROL INPUT
Connectors: Switching Rate:	Rear panel D-sub, 8 bit lines, per channel 20ns + waveform duration
Input Impedance: Input Level:	minimum 10kΩ, typical TTL
EXTERNAL REFEREN	ICE INPUT
Connector: Input Frequency: Input Impedance: Voltage Swing: Damage Level:	Rear panel BNC 10/20/50/100 MHz, programmable 50Ω -5dBm to 5dBm 10dBm
EXTERNAL SAMPLE	CLOCK INPUT
Connector: Input Impedance: Voltage Swing: Input Frequency: Clock Divider: Damage Level:	Rear panel SMA 50Ω 0dBm to 10dBm 10kHz to 5GHz 1/1, 1/2, 1/4, 1/64, separate for each channel 15dBm
RUN MODES	
Continuous:	A selected output function
Self Armed:	shape is output continuously. No start commands are required to generate waveforms
Armed:	The output dwells on a DC level and waits for an enable command and then the output waveform is output continuously. An abort command turns off the waveform.

5GS/s Dual Channel Arbitrary Waveform Generators Specification

output waveforms and then the instrument waits for the next trigger signal. The first trigger signal activates the output; consecutive triggers are ignored for the duration of the output waveform. The first trigger signal activates the output; consecutive triggers restart the output waveform regardless if the current
waveform has been completed or not. A waveform is output when a gate signal is asserted. The waveform is repeated until the gate signal is de-asserted. Last
period is always completed. Upon trigger, outputs a Dual or multiple pre-programmed number of waveform cycles from 1 through 1M.
RISTICS
Channel 1, channel 2, or both 200 SCLK periods + 50ns Separate for each channel 0 to 8,000,000 SCLK periods 8 points Same as SCLK accuracy Detects a unique pulse width or <>pulse width, > pulse width
10ns to 2s 2ns ±(5% of setting +20ns) Ignores triggers for a hold-off 100ns to 2s 2ns ±(5% of setting +20ns) 8 SCLK periods
Common or separate Waveform start to waveform start Waveform stop to waveform start 200ns to 20s 3 digits 100ppm 152 to 8,000,000 SCLK periods Even numbers, divisible by 8

MANUAL

MANUAL	
Source:	Soft trigger command from the front panel or remote
INTER-CHANNEL SK	EW CONTROL
COARSE TUNING	
Initial skew: Control:	200ps
Range	0 to waveform-length points; 0 to 80 points with external segment control
Resolution <300 MS/s >300 MS/s	16 points 8 points
Accuracy:	Same as SCLK accuracy
FINE TUNING	
Initial skew: Control:	200ps
Range Resolution	-3ns to +3ns 10ps
Accuracy:	(10% of setting + 20ps)
TWO INSTRUMENTS S	SYNCHRONIZATION
Initial Skew: Skew Control: Skew Resolution: Offset Resolution: Offset Control:	20ns + 0 to 16 SCLK -5ns to 5ns 10ps 8 SCLK increments 0 to Waveform length; 0 to 80 points with external segment control
GENERAL	
Voltage Range: Frequency Range: Power Consumption: Display Type: Interfaces: USB LAN GPIB Segment control Dimensions:	100VAC to 240VAC 50Hz to 60Hz 150VA TFT LCD, 4 ", 320 x 240 pixels 1 x front, USB host, (A type); 1 x rear, USB device, (B type) 1000/100/10 BASE-T IEEE 488.2 standard interface 2 x D-sub, 9 pin
With Feet Without Feet Weight: Without Package Shipping Weight Temperature: Operating Storage Humidity: Safety:	315 x 102 x 425 mm (WxHxD) 315 x 88 x 425 mm (WxHxD) 4.5kg 6kg 0°C to 40°C -40°C to 70°C 85% RH, non condensing CE Marked, IEC61010-1

EMC:	IEC 61326-1:2006
Calibration:	2 years
Warranty*:	5 years standard
	* 1 year standard in India

ORDERING INFORMATION	
MODEL	DESCRIPTION
SE5082	5GS/s Dual Channel Arbitrary Waveform Generator
OPTIONS	
DAC DC	DAC Output DC coupled output module
ACCESSORIES	
Sync Cable: W-Rack Mount: Case Kit:	Multi-instrument synchronization 19" Single Rack Mounting Kit Professional Carrying Bag

Note: Options and accessories must be specified at the time of your purchase

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