



40 Years
Celebration

NEW



MODELS WX2181/2B

2.3GS/s Single/Dual Channel Arbitrary Waveform Generators

- Single / Dual Channel 2.3GS/s, 14 Bit waveform generator, configurable as separate or synchronized channels
- Inter-channel control from -3ns to +3ns with 10ps resolution
- 1GHz sine and 500MHz square waves
- 16M waveform memory, 32M memory optional
- 3 selectable output paths:
 - 2Vp-p into 50Ω with 700MHz bandwidth, Differential DC output
 - 4Vp-p into 50Ω with 350MHz bandwidth, Differential DC output
 - -20 to +10 dBm into 50Ω with >1GHz bandwidth, RF AC output
- AM, FM, FSK, PSK, ASK, Amp. Hop, Freq. Hop, Sweep & Chirp
- Powerful pulse composer for analog, digital and mixed signals
- 16 Bit/Ch. LVDS Parallel / Separate Outputs (Option D)
- Smart trigger allows: trigger hold-off, detect \Leftrightarrow pulse width, as well as wait-for-waveform-end or abort waveform and restart
- Advanced sequencer for step, loop, nest and jumps scenarios
- Two differential markers per channel with programmable positions, width and levels
- Two instrument synchronization to form a four-channel system
- User friendly 4" color LCD display
- Remote control through LAN, USB and GPIB
- Store/recall capability on disk-on-key or 4GB internal memory
- LXI Class C compliant

The WX2181/2B, 2.3GS/s Single / Dual Channel Arbitrary Waveform Generator, offers unrivaled performance, even when compared to instruments designed to generate fewer types of signals or higher sampling rates. Its affordable footprint saves space and cost without compromising bandwidth and signal integrity.

Universal Waveform Source

Aside from its natural ability to generate arbitrary shapes with waveform granularity of 1 point, the WX2181/2B can also be used as a full-featured standard, modulation or pulse generator to solve various applications. Equipped with 2.3GS/s 14-bit clock and 16M points (32M optional) memory, the WX2181/2B can generate literally any waveform, short or long, at frequencies up to 1GHz with 8 digits of resolution, resulting in the highest precision signal creation and regeneration without compromising signal fidelity or system integrity.

Signal Integrity and Purity

One of the most important requirements in today's testing and measurement applications is high signal quality. With a typical SSB phase noise of $<-115\text{dBc}$ at 100MHz, and $<-95\text{dBc}$ at 1GHz, at 10 kHz carrier offset and with exceptionally good SFDR of $<-70\text{dBc}$ at 1GHz carrier, Tabor's WX2181/2B unique platform delivers one of the best quality signals available on the market today, answering the ever-growing demand for clear and precise signals.

Common or Separate Clocks

Need a dual channel unit, a single channel unit... why choose? With the new WX2182B you can have it both ways. The WX2182B has two output channels, which can either operate independently, or synchronized to share the same sample clock source. As two separate channels, one has the advantage of having 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 two synchronized channels with less than 10ps skew and skew control is very significant in applications that require an accurate and controlled phase between the two channels, which is ideal for many X-Y modes and I&Q output applications.

DC or AC Coupled Outputs

Have a requirement for different output paths in your lab? Great! The WX2181/2B offers two single or differential ended DC coupled and one single ended AC coupled output amplifiers: 2Vp-p into 50Ω with 700MHz bandwidth, for applications demanding optimized transitions and aberrations; 4Vp-p into 50Ω with 350MHz bandwidth, for applications demanding high voltage or -20 to +10dBm path for applications requiring bandwidth and flatness for frequencies as high as 1GHz.

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MODELS WX2181/2B



2.3GS/s Single/Dual Channel Arbitrary Waveform Generators

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 WX2181/2B 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.

Dynamic Segment / Sequence Control

Working in the real-time world and need fast waveform switching? The WX2181/2B 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.

Pulse / Pattern Creation

Generating complex pulse trains has never been easier. The Pulse Composer is a powerful built-in tool that converts the WX2181/2B 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, arbitrary bit design, 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 WX2181/2B 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.

Multi-Level and PAM(n) Signals

The WX2181/2B's pulse composer enables up to 2Gbit/s data rate generation, utilizing either NRZ and RZ modes (minimum transition times) which is ideal especially for multi level and PAM(n) applications such as, LED (light-emitting diodes), CAN, QPHY, FlexRay or simulating and testing Ethernet environment, whether it's 100Mbit/s (100BASE-T), the later gigabit Ethernet (1000BASE-T) or even the latest 802.3an standard (10GBASE-T), which utilizes PAM-16.

Smart Trigger

Until now, you've been forced to trigger on a specific event. Tabor's all-new SmartTrigger 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 ($<time$), a pulse having a smaller pulse width than a programmed time value ($>time$), or even on a pulse having a pulse width between two limits ($<>time$). In addition, the SmartTrigger 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.

Programmable Differential Markers

The WX2181/2B is equipped with two programmable differential markers for each output 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.

Digital Outputs (Option D)

In today's world, many applications require multiple digital outputs or a parallel digital interpretation of the analog outputs. With the new digital option the WX now offers up to 16 programmable digital outputs per channel, up to extra 32M of digital memory, up to 1.15Gb/s of data rate and controllable skew between outputs. Combined with Tabor's dedicated digital signal amplifier, WXD1, the WX is, by far, the best mixed signal source on the market to meet all of today's requirements.

4-Channel Capability

Need more than two channels to drive your application? With two WX2182B you can reach up to 4 synchronized channels system using a Master-Slave arrangement, allowing users to benefit from the same high quality performance even for multi-channel needs.

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.

Multiple Environments to Write Your Code

Model WX2181/2B comes with a complete set of drivers, allowing you to write your application in various environments such as: Labview, CVI, C++, VB, and MATLAB. You may also link the supplied dll to other Windows based API's or, use low-level SCPI commands (Standard Commands for Programmable Instruments) to program the instrument, regardless if your application is written for Windows, Linux or Macintosh operating systems.

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MODELS WX2181/2B

2.3GS/s Single/Dual Channel
Arbitrary Waveform Generators



Specification

CONFIGURATION

Output Channels 1/2, Synchronized/fully separated

STANDARD WAVEFORMS

Type: Sine, triangle, square, ramp, pulse, sin(x)/x, exponential rise, exponential decay, gaussian, noise and DC.

Frequency Range:

Sine 10kHz to 1GHz
Square, Pulse 10kHz to 500MHz
All others 10kHz to 250MHz

SINE

Start Phase: 0 to 360°

Phase Resolution: 0.1°

Harmonics Distortion (typ.):

	1Vpp _{DC}	3Vpp ^{HV}	0dBm ^{AC}
5MHz to 100MHz	<-44dBc	<-40dBc	<-40dBc
200MHz to 375MHz	<-40dBc ⁽¹⁾	<-40dBc ⁽¹⁾	<-40dBc
375MHz to 500MHz	<-35dBc ⁽¹⁾	<-35dBc ⁽¹⁾	<-50dBc
500MHz to 700MHz	<-32dBc ⁽¹⁾	<-32dBc ⁽¹⁾	<-55dBc
700MHz to 1GHz	<-70dBc ⁽¹⁾	<-70dBc ⁽¹⁾	<-70dBc

⁽¹⁾ Measured with 1GHz lowpass filter

Non-Harmonics Distortion (typ.):

1MHz to 100MHz <-80dBc
100MHz to 250MHz <-75dBc
250MHz to 500MHz <-70dBc
500MHz to 1GHz <-65dBc

SSB Phase Noise (10kHz offset):

1MHz Carrier <-120dBc/Hz
10MHz Carrier <-118dBc/Hz
100MHz Carrier <-115dBc/Hz
250MHz Carrier <-108dBc/Hz
500MHz Carrier <-100dBc/Hz
1GHz Carrier <-95dBc/Hz

Flatness (AC Path):

Cross Range ±0.5dB

PULSE

Pulse Mode: Single or double, programmable
Polarity: Normal, inverted or complement
Period: 2ns to 1.6s
Resolution: 500ps
Pulse Width: 1ns to 1.6s
Rise/Fall Time:
Fast
DC Path 600ps (typical < 500ps)
HV Path 1ns (typical < 900ps)
Linear 1ns to 1.6s
Delay: 1ns to 1.6s
Double Pulse Delay: 1ns to 1.6s
Amplitude:
Range
DC Path 50mVp-p to 2Vp-p into 50Ω
HV Path 100mVp-p to 4Vp-p into 50Ω

Levels

Low Level -2V to +1.95V
High Level -1.95V to +2V

NOTES:

- All pulse parameters, 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 16,000,000 to 1.
- 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.
- The sum of all pulse parameters must not exceed the pulse period setting.

PULSE / PATTERN COMPOSER

MULTI-LEVEL / LINEAR-POINTS

Number of Levels: 1 to 1000
Dwell Time: 500ps to 10s
Memory: 100k
Amp. Resolution: 4 digits
Time Resolution: 500ps

PATTERN

Pattern Source: PRBS or user-defined
PRBS Type: PRBS7, PRBS9, PRBS11, PRBS15, PRBS23, PRBS31, USER

Data Rate: 10Bit/s to 500MBit/s
Number of Levels: 2, 3, 4, 5
High/Low Levels: ±2.5V
Resolution: 4 digits
Loops: 1 to 1e6
Preamble: 1 to 16e6
Length: 1 to 16e6

PAM (PULSE AMPLITUDE MODULATION)

Data Rate: 10Mbit/s to 2Gbit/s
PAM Range: 2 to 1000
Pattern Memory: 16Mbit
Resolution: 1 bit (TBD)

ARBITRARY WAVEFORMS

Sample Rate: 10MS/s to 2.3GS/s (2.5GS/s typ.)
Vertical Resolution: 14 bits
Waveform Memory: 16M points standard, 32M points optional
Min. Segment Size:
Standard 384 points
Option 1 & D 192 points
Resolution: 32 points (16 point with opt. 1 & D)
No. of Segments: 1 to 16k
Waveform Granularity: 1 point
Dynamic control: Software command or rear panel segment control port
Jump Timing: Coherent or asynchronous

SEQUENCED WAVEFORMS

Multi Sequence: 1 to 1,000 unique scenarios
Sequencer Steps: 1 to 16k steps.
Segment Duration: 32ns, min.
Segment Loops: 1 to 1M cycles, each segment
Sequence Loops: 1 to 1M ("Once" mode only)
Step Advance Modes: Continuous, once (x "N") and stepped

SEQUENCED SEQUENCES

Sequence Scenarios: 1 Scenario
Dynamic Control: Software command or rear panel sequence control port
Table Length: 1 to 1k steps
Advance Control: Continuous, once and stepped
Sequence Loops: 1 to 1,000,000 cycles

MODULATION

COMMON CHARACTERISTICS

Carrier Waveform: Sine
Carrier Frequency: 10kHz to 1GHz
Modulation Source: Internal

FM

Modulation Shape: Sine, square, triangle, ramp
Modulation Freq.: (CW/6) > (M.F) > (30e⁻⁶xCW)
Deviation Range: CW/2

FSK / FREQUENCY HOPPING

Hop Table Size: 2 to 10,000 (<CWx10.24e⁻³)
Hop Type: Fast or Linear
Dwell Time Mode: Fixed or programmable per step
Dwell Time: 2ns to 10s
Dwell Time Res.: 2ns

SWEEP / CHIRP

Sweep Type: Linear or log
Sweep Direction: Up or down
Sweep Time: (High Freq.) > (S.T) > (50e³/High Freq.)
Modulation Shape: Pulse
Pulse Repetition:
Range 100ns to 2s
Resolution 3 digits
Accuracy 100ppm

AM

Modulation Shape: Sine, square, triangle, ramp
Modulation Freq.: (CW/9) > (M.F) > (CW/50e³)
Modulation Depth: 0.1 to 100%

ASK / AMPLITUDE HOPPING

Hop Table Size: 2 to 10,000 (<CWx10.24e⁻³)
Resolution Maximum amplitude/4096
Hop Type: Fast or Linear
Dwell Time Mode: Fixed or programmable per step
Dwell Time: 2ns to 10s
Resolution 2ns

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MODELS WX2181/2B



2.3GS/s Single/Dual Channel Arbitrary Waveform Generators

Specification

(n)PSK and (n)QAM

Modulation Type: PSK, BPSK, QPSK, OQPSK, PI/4 DQPSK, 8PSK, 16PSK, 16QAM, 64QAM, 256QAM and User Defined

Carrier Control: On/Off

Carrier Frequency: 100kHz to 65MHz

Symbol Rate Range:

Carrier On 100kHz to 65MHz

Carrier Off 100kHz to 500MHz

Symbol Accuracy: 1ppm

Table Size: 2 to 10,000

I-Q Parameters:

Gain imbalance TBD

Offset imbalance TBD

Phase imbalance TBD

COMMON CHARACTERISTICS

FREQUENCY

Resolution: 8 digits

Accuracy/Stability: Same as reference

ACCURACY REFERENCE CLOCK

Internal 1 ppm from 19°C to 29°C;
1ppm/°C below 19°C or
above 29°C; 1 ppm/year
aging rate

External Same as accuracy and
stability of the external ref.

OUTPUTS

MAIN OUTPUTS

Coupling: DC-coupled, or AC-coupled
Connectors: Front panel SMAs
Impedance: 50Ω nominal, each output
Protection: Protected against temporary
short to case ground

DC-COUPLED

Type: Single-ended or differential
Resolution: 4 digits
Accuracy: ±(3% +5 mV), offset = 0V
Overshoot: 5%, typical

DC PATH

Rise/Fall Time: <600ps (typical <500ps)

Amplitude Range:

Single-ended 50mVp-p to 2Vp-p *

Differential 100mVp-p to 4Vp-p *

HV PATH

Rise/Fall Time: 1ns (typical < 900ps)

Amplitude Range:

Single-ended 50mVp-p to 4Vp-p *

Differential 100mVp-p to 8Vp-p *

* Double into high impedance

OFFSET

Offset Range: -1.5V to + 1.5V into 50Ω

Offset Resolution: 4 digits

Offset Accuracy: ±(5% +5mV)

RF, AC-COUPLED

Type: Single-ended

Amplitude Range: -20dBm to +10dBm into 50Ω,

Resolution: 4 digits

Accuracy: (3% +0.5dBm)

Bandwidth: 1GHz

MARKER OUTPUTS

Number of Markers: Two markers per channel

Type: Differential (+) and (-) outputs

Connectors: SMB

Skew Between

Markers: 100ps, typical

Impedance: 50Ω

Amplitude Voltage:

Window 0V to 1.25V, single-ended;

0V 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;

0V to 2.5V, differential

Resolution: 10mV

Accuracy: 10% of setting

Width control: 4 SCLK to segment length;

2 SCLK with option 1

Position control:

Range 0 to segment length

Resolution 4 points (2 point with option 1)

Initial delay: 4ns±½ clock (Output to marker)

Variable delay:

Control Separate for each channel

Range 0 to 3ns

Resolution 10ps

Accuracy ±(10% of setting +20ps)

Rise/Fall Time: <1ns, typical

DIGITAL OUTPUTS (OPTION D)**

Number of Bits: Up to 32 (16 per analog channel)

Type: Differential (+) and (-) outputs

Connectors: High speed I/O receptacle,

68-pin VRDPC

Source: Channel 1 or channel 2

Skew Between Bits: 100ps, typical

Level: LVDS

Impedance: 100Ω

Max. Data Rate: 1.15Gb/s

Pattern Memory:

Dedicated Up to 16MWord per channel

Parallel Up to 16MWord per channel

arbitrary memory

** Replaces the markers

SYNC OUTPUT

Connector: Front panel SMA

Source: Channel 1 or channel 2

Type: Single ended

Waveform Type:

Pulse 32 points width;

16 points with opt. 1/D

Waveform complete

Impedance: 50Ω

Amplitude: 1V; doubles into high impedance

Variable Position Control:

Range 0 to segment length

Resolution 32 points (16 point with opt. 1/D)

Rise/Fall Time

2ns, typical

Variable Width control:

Range 32 points (16 points with opt.

1/D) to segment length

Resolution 32 points (16 point with opt. 1/D)

INPUTS

TRIGGER INPUT

Connector: Front panel SMA

Input Impedance: 10kΩ

Polarity: Positive, negative, or both

Damage Level: ±20Vdc

Frequency Range: 0 to 15MHz

Trigger Level Control:

Range -5V to 5V

Resolution 12 bit (2.5mV)

Accuracy ±(5% of setting + 2.5mV)

Sensitivity 0.2Vp-p

Min. Pulse Width: 10 ns

EVENT INPUT

Connector: Rear panel BNC

Input Impedance: 10kΩ

Polarity: Positive, negative or either

Damage Level: ±20Vdc

Frequency Range: 0 to 15MHz

Trigger Level Control:

Range -5V to 5V

Resolution 12 bit (2.5mV)

Accuracy ±(5% of setting + 2.5mV)

Sensitivity 0.2 Vp-p minimum

Min. Pulse Width: 10 ns

SEQUENCE/SEGMENT CONTROL INPUT

Connectors: Rear panel D-sub, 8 bit lines

Input Impedance: 10kΩ

Input Level: TTL

EXTERNAL REFERENCE INPUT

Connector: Rear panel BNC

Input Frequency: 10MHz to 100MHz

Input Impedance: 50Ω

Voltage Swing: -5dBm to 5dBm

Damage Level: 10dBm

MODELS WX2181/2B



2.3GS/s Single/Dual Channel Arbitrary Waveform Generators

Specification

EXTERNAL SAMPLE CLOCK INPUT

Connector:	Rear panel SMA
Input Impedance:	50Ω
Voltage Swing:	0dBm to 10dBm
Input Frequency:	1GHz to 5GHz (Double the internal clock)
Clock Divider:	1/1, 1/2, 1/4, 1/256, separate for each channel
Damage Level:	15dBm

RUN MODES

Continuous:	A selected output function shape is output continuously.
Self Armed:	No start commands are required to generate waveforms. 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.
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.
Triggered:	A trigger signal activates a single-shot or counted burst of output waveforms and then the instrument waits for the next trigger signal.
Normal Mode	The first trigger signal activates the output; consecutive triggers are ignored for the duration of the output waveform.
Override Mode:	The first trigger signal activates the output; consecutive triggers restart the output waveform regardless if the current waveform has been completed or not.
Gated:	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.
Burst:	Upon trigger, outputs a Dual or multiple pre-programmed number of waveform cycles from 1 through 1M.

TRIGGER CHARACTERISTICS

EXTERNAL

Source:	Channel 1, channel 2, or both
Connector:	SMA
Input Impedance:	10kΩ
Polarity:	Positive, negative, or both
Damage Level:	±20Vdc
Frequency Range:	0 to 15MHz
Trigger Level Control:	
Range	-5V to 5V

Resolution	12 bit (2.5mV)
Accuracy	±(5% of setting + 2.5mV)
Sensitivity	0.2Vp-p
Pulse Width:	10 ns, minimum
System Delay:	200 SCLK periods + 50ns
Trigger Delay:	Separate for each channel
Range	0 to 8,000,000 SCLK periods
Resolution	8 points (4 point with opt. 1/D)
Accuracy	Same as SCLK accuracy
Smart Trigger:	Detects a unique pulse width
Conditioned Trigger:	< pulse width, > pulse width or <>pulse width
Pulse Width Range	50ns to 2s
Resolution	2ns
Accuracy	±(5% of setting +20ns)
Trigger Hold-off:	Ignores triggers for a hold-off
Hold-off range	100ns to 2s
Resolution	2ns
Accuracy	±(5% of setting +20ns)
Trigger jitter:	8 SCLK periods; 4 SCLK periods with opt. 1/D

INTERNAL

Source:	Common or separate
Modes:	
Timer	Waveform start to waveform start
Delayed	Waveform stop to waveform start
Timer:	
Range	400ns to 2s
Resolution	3 digits
Accuracy	100ppm
Delay	
Range	152 to 8,000,000 SCLK periods
Resolution	Even numbers, divisible by 8 (4 with opt. 1/D)

MANUAL

Source:	Soft trigger command from the front panel or remote
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INTER-CHANNEL SKEW CONTROL

COURSE TUNING

Initial skew:	200ps
Control:	
Range	0 to waveform-length points
Resolution	8 points (4 point with opt. 1/D)
Accuracy:	Same as SCLK accuracy

FINE TUNING

Initial skew:	200ps
Control:	
Range	-3ns to +3ns
Resolution	10ps
Accuracy:	(10% of setting + 20ps)

TWO INSTRUMENTS SYNCHRONIZATION

Initial Skew:	20ns + 0 to 16 SCLK (8 SCLK with opt. 1/D)
Offset Control:	0 to Waveform length
Offset Resolution:	8 SCLK increments (4 SCLK with opt. 1/D)
Skew Control:	-5ns to 5ns
Skew Resolution:	10ps

GENERAL

Voltage Range:	100VAC to 240VAC
Frequency Range:	50Hz to 60Hz
Power Consumption:	150VA
Display Type:	TFT LCD, 4", 320 x 240 pixels
Interfaces:	
USB	1 x front, USB host, (A type); 1 x rear, USB device, (B type)
LAN	1000/100/10 BASE-T
GPIB	IEEE 488.2 standard interface
Segment control	2 x D-sub, 9 pin
Dimensions:	
With Feet	315 x 102 x 395 mm (WxHxD)
Without Feet	315 x 88 x 395 mm (WxHxD)
Weight:	
Without Package	4.5kg
Shipping Weight	6kg
Temperature:	
Operating	0°C to 40°C
Storage	-40°C to 70°C
Humidity:	85% RH, non condensing
Safety:	CE Marked, IEC61010-1
EMC:	IEC 61326-1:2006
Calibration:	2 years
Warranty (1):	5 years standard

ORDERING INFORMATION

MODEL	DESCRIPTION
WX2181B	2.3GS/s Single Channel Arbitrary Waveform Generator
WX2182B	2.3GS/s Dual Channel Arbitrary Waveform Generator

OPTIONS

Option 1(2):	32M Memory (per channel)
Option D(2):	16 Bit/Ch. Digital Outputs

(2) Improves timing characteristics as well

ACCESSORIES

Sync Cable:	Multi-instrument synchronization
S-Rack Mount:	19" Single Rack Mounting Kit
Case Kit:	Professional Carrying Bag

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

(1) Standard warranty in India is 1 year.



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