

Benchtop Platform

Introducing Tabor's all new Proteus series, the world's first Arbitrary Waveform Transceiver. In its benchtop platform, with a 9" touch display and on-board PC the system integrates the ability to transmit, receive and perform digital signal processing all in a single instrument. The fully standalone operated system, offers industry leading performance, various configuration options, an innovative task oriented programming, and user programmable FPGA. So whether it is for aerospace and defense, telecommunications, automotive, medical or high-end physics applications Proteus opens the door to a world of infinite possibilities.

Leading Features:



Dual, four, eight or twelve channel 1.25GS/s & 2.5 GS/s 16 bit, or dual, four or six channel 9GS/s 16 bit, AWG & AWT configurations



Integrated NCO for digital up-converting to microwave frequencies

Real time data streaming directly to the FPGA for continuous and infinite waveform generation



9GHz bandwidth, 2.7GS/s 12 bit digitizer option for feedback control system and conditional waveform generation

Innovative task oriented sequence programming for maximum flexibility to generate any imaginable scenario



Excellent phase noise and spurious performance

User customizable FPGA for application specific solutions

Standalone 4U,
19" wide benchtop
platform, with 9"
touch display, USB
3.0, 10G Ethernet
and thunderbolt high
speed interfaces

Up to 16GS/s waveform memory with the ability to simultaneously generate and download waveforms.





Standalone and easy to use

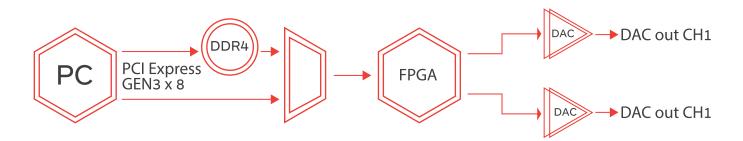
The benchtop version of the Proteus series offers up to 12 channels in a 4U, 19" benchtop box. With a 9" touch display and on-board PC the benchtop platform enables users to program the instrument without the need of an external PC. Users can program the instrument from the on-board PC using various programming environments such as Matlab, LabView, Python, and more. So for synchronized, phase coherent, multi-channel applications such as quantum physics and radar applications the Proteus arbitrary waveform transceiver is an ideal, high performance and cost effective solution.

Ultra-fast data transfer rates

Spending more time setting up your generated scenario than actually running it? The Proteus Benchtop platform utilizes PCI express Gen 3x8 lanes connection that enables up to 64Gb/s of data transfer speed. This enable the Proteus arbitrary waveform transceiver to offer the fastest waveform download available on the market today, saving you one of your most valuable resources, time.

Feedback control system

Many of today's applications, require conditional waveform generation depending on input signals from the environment. The Proteus arbitrary waveform transceiver flawlessly integrates both DAC and ADC in one system, controlled by a single FPGA for optimal synchronization and minimum latency. This high speed control system provides a feedback loop for fast decision making on the fly with minimum latency.



Generate any imaginable scenario

The new series offers an innovative task oriented sequence programming where user can change the full instrument set up at every line of the task table. In addition, not only can users of the Proteus series instruments generate and download waveforms simultaneously, they can stream data directly to the FPGA without the need to use the built in memory. This enables generating random, unique and infinitely long scenarios directly from the controlling PC at DAC speeds of up to 6GS/s. So no matter whether your scenario is extremely complex, infinite or even dynamic you can generate it with the Proteus series model.





CHANNELS CHARACTERISTICS	P9082/4/6B	P2582/4/8/12B	P1282/4/8/12B
NUMBER OF CHANNELS	2/4/6	2/4/8/12	2/4/8/12
INITIAL SKEW	<20ps		
FINE DELAY			
RANGE	0 to 5 ns		
RESOLUTION	5ps		
ACCURACY	±5ps		
COARSE DELAY			
RANGE	0 to wavelength		
RESOLUTION	1 sample point		

ARBITRARY MODE	P9082/4/6B	P2582/4/8/12B	P1282/4/8/12B
MAX. SAMPLE RATE	9GS/s	2.5GS/s	1.25GS/s
RESOLUTION	Up to 16-bit (Depending on model and mode)		
MAX. MEMORY SIZE	Up to 16GS	Up to	8GS
NUMBER OF SEGMENTS	64k		
MINIMUM SEGMENT LENGTH NORMAL FAST SEGMENT	2048 points 1024 points 224 points 64 points		
WAVEFORM GRANULARITY STANDARD OPTIONAL	64 points 32 points	32 points 16 points	32 points 16 points
INTERPOLATION MODES	×1	x1, x2	and x4

TASK MODE		
TASK TABLE LENGTH	64K tasks per channel	
TASK LOOPS	1M	
SEQUENCE	A sequence is defined as a continuous and looped series of tasks	
MAX. NUMBER OF SEQUENCES	32K sequences	
SEQUENCE LOOPS	1M	
SCENARIO	A scenario is defined as a continuous series of tasks/sequences	
MAX. NUMBER OF SCENARIOS	S 1K scenarios	

STREAMING (STM OPTION)	
MAX. STREAM RATE	6GS/s
MINIMUM PC REQUIREMENTS	
CPU	i7
MEMORY	32G
OPERATING SYSTEM	WINDOWS 10
SOURCE	Internal / Rear panel interfaces

SIGNAL PURITY	DC OUTPUT	DIRECT OUTPUT
HARMONIC DISTORTION (1)		
fout = 10 MHz - 200 MHz, Measured @ DC to 2 GHz	<-70 dBc (typ.)	<-70 dBc (typ.)
fout = 200 MHz 1.5 GHz, Measured @ DC to 4.5 GHz	<-60 dBc (typ.)	<-60 dBc (typ.)
fout = 1.5 GHz 4.5 GHz, Measured @ DC to 4.5 GHz	<-50 dBc (typ.)	<-50 dBc (typ.)
SFDR (2)		
fout = 10 MHz500 MHz, Measured @ DC to 1.5 GHz	-80 dBc (typ)	<-85 dBc (typ)
fout = 500 MHz4.5 GHz , Measured @ DC to 4.5 GHz	-70 dBc (typ)	<-75 dBc (typ)
PHASE NOISE (@10kHz offset)		
fout = 140.625MHz	-134 dBc/Hz	
fout = 280.25MHz	-128 dBc/Hz	
fout = 562.5MHz	-122 dBc/Hz	
fout = 1.125GHz	-116 dBc/Hz	
fout = 2.25GHz	-110 dBc/Hz	
fout = 4.5GHz	-104 dBc/Hz	

⁽¹⁾ SCLK=Max sample rate, amplitude = 400mVpp, Direct mode, measured using balun (2) SCLK=Max sample rate, amplitude = 400mVpp, excluding SCLK/2-fout, measured using balun





DC OUTPUT		
OUTPUT TYPE	Single-ended or differential, DC-coupled	
IMPEDANCE	50Ω (nom)	
AMPLITUDE	50 mVp-p to 1.3 Vp-p	
AMPLITUDE RESOLUTION	1mV	
DC AMPLITUDE ACCURACY	±(3% of amplitude ±2 mV)	
VOLTAGE WINDOW	±1.15V	
DC OFFSET	±0.5V	
OFFSET RESOLUTION	10mV	
DC OFFSET ACCURACY	±(3% of setting ±15 mV)	
SKEW BETWEEN NORMAL AND COMPLEMENT OUTPUTS	Ops Ops	
RISE/FALL TIME (20% TO 80%)	(130 ps (typ)	
INSTANTANEOUS BANDWIDTH P128xB P258xB P908xB	625MHz 2.25GHz 4.5GHz	
MAX. USABLE FREQUENCY P128XB P258XB P908XB	2nd Nquist 1.25GHz 2.5GHz 4.5GHz	
JITTER (PEAK-PEAK)	<15 ps (typ)	
OVERSHOOT	<5% (typ)	
CONNECTOR TYPE	SMA	

DIRECT OUTPUT (OPTIONAL)	
OUTPUT TYPE	Single-ended or differential, AC coupled
IMPEDANCE	50Ω (nom)
AMPLITUDE	600mVpp, single-ended into 50Ω
AMPLITUDE RESOLUTION	1mV
AMPLITUDE ACCURACY	±(3% of amplitude ±2 mV)
RISE/FALL TIME (20% TO 80%)	< 60 ps (typ)
INSTANTANEOUS BANDWIDTH P128xB P258xB P908xB	625MHz 2.25GHz 4.5GHz
MAX. USABLE FREQUENCY P128xB P258xB P908xB	2nd Nquist 1.25GHz 2.5GHz 9GHz
CONNECTOR TYPE	SMA

SAMPLE CLOCK OUTPUT	
SOURCE	Selectable, internal synthesizer or sample clock input
FREQUENCY RANGE	SCLK Range
OUTPUT AMPLITUDE	0.5V to 1V depending on SCLK
IMPEDANCE	50Ω (nom), AC coupled
CONNECTOR	SMA

SYNC CLOCK OUTPUT	
AMPLITUDE	500mVpp, typ.
FREQUENCY P908xB P128xB, P258xB	SCLK/32 SCLK/8
WAVEFORM	Square
RISE/FALL TIME (20% TO 80%)	<150ps
IMPEDANCE	LVCMOS
CONNECTOR	SMP

MARKER OUTPUTS		
NUMBER OF MARKERS P1282B, P1284B P1288,P2582,P2584, P9082B P12812B P2588B, P9084B P25812B, P9086B	4 8 12 16 24	
OUTPUT TYPE	Single Ended	
OUTPUT IMPEDANCE	50Ω (nom)	
AMPLITUDE		
VOLTAGE WINDOW	±1.15V	
LEVEL	32mVpp to 1.2Vpp (32 discrete levels)	
RESOLUTION	10mVpp	
ACCURACY	±7%	
OFFSET		
RANGE	±0.5V	
RESOLUTION	10mV	
ACCURACY	±(3% of setting ±15 mV)	
RISE/FALL TIME (20% TO 80%)	%) <200ps	
RANGE	0 - waveform length	
RESOLUTION P128xB, P258xB P908xB	2 pts 8 pts	
MARKER DELAY		
COARSE DELAY		
RANGE	0 to 2048 points	
RESOLUTION P128xB, P258xB P908xB	8 points 32 points	
FINE DELAY		
RANGE	0 to 1.2ns	
RESOLUTION	1ps	
ACCURACY	15ps	
CONNECTOR TYPE	SMP	



REFERENCE CLOCK OUTPUT		
SOURCE	Internal TCXO	
WAVEFORM	Square	
FREQUENCY	100MHz or REF IN	
STABILITY	+/- 2.5 PPM	
AGING	+/- 1 PPM @ +25°C (per year)	
CONNECTOR	SMP	

REFERENCE CLOCK INPUT	
INPUT FREQUENCIES	10MHz / 100MHz selectable
LOCK RANGE	± 1MHz
INPUT LEVEL	0.6 Vp-p to 1.7 Vp-p
IMPEDANCE	50Ω, AC coupled (nom)
CONNECTOR TYPE	SMP

SAMPLE CLOCK INPUT	
FREQUENCY RANGE	SCLK Range
INPUT POWER RANGE	0 to 1V
DAMAGE LEVEL	<0.5V or >1.5V
INPUT IMPEDANCE	50Ω nom, AC coupled
CONNECTOR TYPE	SMA

TRIGGER INPUTS	
INPUT RANGE	±5 V
THRESHOLD	±5 V
RANGE	−5 V to +5 V
RESOLUTION	100 mV
SENSITIVITY	200 mV
JITTER Standard P128xB, P258xB P908xB Low Trigger Jitter Opt.	8 SCLK periods 32 SCLK periods SQRT(SCLK period^2 + 150e-12^2)
LATENCY / SYSTEM DELAY P128xB, P258xB P908xB	<900SCLK periods <2700 SCLK Periods
POLARITY	Pos or Neg
SOURCE	Selectable between channels
INPUT IMPEDANCE	10 k Ω or 50 Ω (nom), DC coupled, factory configured
MAX TOGGLE FREQUENCY	50MHz
MINIMUM PULSE WIDTH	5ns
CONNECTOR TYPE	SMP

FAST SEGMENT DYNAMIC CON	TROL INPUT (OPTIONAL)
INPUT SIGNALS	Data 10bit, Channel select 2 bit, Valid 1 bit
SEGMENTS / SEQUENCES	1024 (128 fast)
DATA RATE	35MHz
MINIMUM LATENCY (Dynamic o	control input to direct out)
FAST SEGMENT	<250ns
NORMAL SEGMENT	<1µ
INPUT LEVEL	LVTTL
CONNECTOR	Mini D-SUB

DIGITIZER CHARACTERISTICS (A	AWT OPTION)
NUMBER OF CHANNELS	1 or 2
INPUT VOLTAGE RANGE	500 mVpp (full scale)
INPUT VOLTAGE OFFSET	-2V to +2V
INPUT FREQUENCY RANGE	9GHz
RESOLUTION	12 bits
ACQUISITION MEMORY	<2GS/ch
SAMPLE CLOCK SOURCES	Internal or external
INTERNAL CLOCK SOURCE	Internal, external reference
MAX SAMPLING RATE	5.4GS/s in Single channel mode 2.7Gs/s in Dual channel mode
MIN SAMPLING RATE	1GS/s
CLOCK ACCURACY	<2 ppm
IMPEDANCE	50Ω
COUPLING	DC or AC (factory configured)
CONNECTOR	SMA
TRIGGER SYSTEM	
TRIGGER MODES	Positive, negative edge
TRIGGER SOURCES	External, Software, Channel
COUPLING	DC
IMPEDANCE	50Ω (nominal)
LEVEL RANGE	>± 2.5 V (nominal)
FREQUENCY RANGE	DC to 65MHz
CONNECTOR	SMA

FPGA PROGRAMMING	
FPGA TYPE	Xilinx Kintex UltraScale XCKU060 upgradeable to XCKU115
MODES	
STANDARD	Tabor standard built-In fuctionality
DECISION BLOCKS	Built-in library of matematical functions, modulation & digital Filters
SHELL	Open core providing all interfaces and configuration path to the user



DIGITAL UPCONVERTER	
MODES	NCO Only / Digital Upconverter
SAMPLING RATE	1GS/s to Max sample rate
CARRIER FREQUENCY	
RANGE	0 to 40% of Sampling rate
RESOLUTION	48 bit
PHASE RANGE	0 to 360°
PHASE RESOLUTION	16 bit
ALL IQ PARAMETERS	Same as Arbitrary mode

GENERAL	
VOLTAGE RANGE:	
FREQUENCY RANGE:	47Hz to 63Hz
POWER CONSUMPTION:	550W max.
INTERFACE: USB	1 x front panel USB host (type A) 2 x rear panel USB host, (type A) 1 x front panel USB Device (type C)
Thunderbolt (Optional)	1 x rear panel Thunderbolt3
LAN (BASE-T)	1 x rear panel RG45 1000/100/10
SFP+ (LAN replacement Opt.)	1 x rear panel SFP+ 10G Optical
GPIB (Option)	IEEE 488.2 - GPIB
STORAGE	128GB removable
DIMENSIONS: WITHOUT PACKAGE SHIPPING WEIGHT	7.5 Kg 9 Kg
WEIGHT: OPERATING STORAGE	0°C to +40°C -40°C to +70°C
TEMPERATURE: OPERATING STORAGE WARM UP TIME	0°C to +40°C -40°C to +70°C 15 minutes
HUMIDITY:	85% RH, non-condensing
SAFETY:	CE Marked, EC61010-1:2010
EMC:	IEC 61326-1:2013
CALIBRATION:	2 years
WARRANTY:	1/3year warranty plan

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MODEL DESCRIPTION P1282B 1.25GS/s, 16Bit, AWG, 1GS/s Memory, 2CH, 4 Markers P1284B 1.25GS/s, 16Bit, AWG, 1GS/s Memory, 4CH, 4 Markers P1288B 1.25GS/s, 16Bit, 2GS Memory, 8CH 8 Markers P12812B 1.25GS/s, 16Bit, 2GS Memory, 12CH 12 Markers P2582B 2.5GS/s, 16Bit, 2GS Memory 2CH, 8 Markers P2584B 2.5GS/s, 16Bit, 2GS Memory, 4CH, 8 Markers P25812B 2.5GS/s, 16Bit, 2GS Memory, 8CH 16 Markers P25812B 2.5GS/s, 16Bit, 2GS Memory, 12CH, 24 Markers P9082B 9GS/s 16Bit, 4GS Memory 2CH, 8 Markers P9084B 9GS/s 16Bit, 4GS Memory 4CH, 16 Markers P9086B 9GS/s 16Bit, 4GS Memory 6CH, 24 Markers OPTIONS 4M1 4GS/s Memory option for models P1282x & P2582x 4M2 4GS/s Memory option for models P1288x, P2588x & P9084x 4M4 4GS/s Memory option for models P12812x, P25812x&P9086 8M1 8GS/s Memory option for models P1284x, P2584x & P2584x 8M2 8GS/s Memory option for models P1284x, P2584x & P9082x
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8M3 8GS/s Memory option for models P1288x, P2588x & P9084>
8M4 8GS/s Memory option for models P12812x, P25812x & P9086
16M1 16GS/s Memory option for models P9082x
16M2 16GS/s Memory option for models P9084x
16M3 16GS/s Memory option for models P9086x
DO1 9GHz BW Direct Output option for models P1282x & P2582
DO2 9GHz BW Direct Output option for models Pxx84x & P9082;
DO3 9GHz BW Direct Output option for models Pxx88x & P9084;
DO4 9GHz BW Direct Output option for models Pxx812x & P9086
FS1 Fast Segment Control option for models P1282x & P2582x
FS2 Fast Segment Control option for P1284x, P2584x & P9082x
FS3 Fast Segment Control option for P1288x, P2588x & P9084x
Illtra Low Trigger Litter (200ns typ.) option for models
P1282x & P2582x
LTJ2 Ultra Low Trigger Jitter (200ps typ.) option for models P1284x, P2584x & P9082x
LTJ3 Ultra Low Trigger Jitter (200ps typ.) option for models P1288x, P2588x & P9084x
LTJ4 Ultra Low Trigger Jitter (200ps typ.) option for models P12812x, P25812x & P9086x
G1 Low Waveform Granularity option for models P1282x & P2582
G2 Low Waveform Granularity option for P1284x, P2584x & P9082
G3 Low Waveform Granularity option for P1288x, P2588x & P9084
G4 Low Waveform Granularity option for P12812x, P25812x&P9086
AWT 5.4GS/s Single, 2.7GS/s Dual Channel 12 Bit Digitizer option for models P1284M, P2584M & P9082M
STM 6GS/s Streaming option
PROG High level FPGA programming capability throgh desicion block of built-in Demodulation & digital Filters
Shell Open core integration to allow simple FPGA control & programmin
TBolt Rear panel Thunderbolt3 USB (type C)
SFP+ Rear panel 10G optical SFP+ connectivity (replace the LAN)