

Desktopt Platform

In a compact desktop platform, the system integrates the ability to transmit, receive and perform digital signal processing all in a single instrument. The small footprint system, that can generate up to 12 channels in a single box, 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



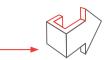
Real time data streaming directly to the FPGA for continuous and infinite waveform generation



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

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



Excellent phase noise and spurious performance

User customizable FPGA for application specific solutions



Space efficient desktop platform, with USB 3.0, 10G Ethernet and thunderbolt high speed interfaces.



Compact and space efficient

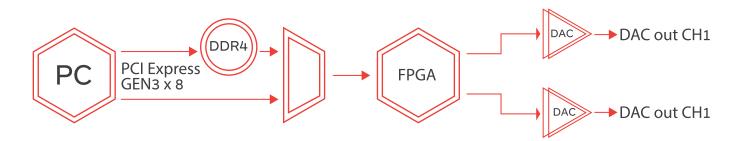
The desktop version of the Proteus series offers up to 12 channels in a 4U, half 19" dedicated chassis. The compact form size and small footprint saves valuable bench space. So for synchronized, phase coherent, multi-channel applications such as quantum physics and radar applications the Proteus arbitrary waveform transceiver is an ideal, space efficient and cost effective solution.

Extra-fast communication interface

Spending more time setting up your generated scenario than actually running it? The Proteus desktop platform offers the fastest standardized communication interfaces commonly available in PCs today. These include USB3.0 and 10GE interfaces as well as, a thunderbolt 3 interface which enables up to 40Gb/s of data transfer speed. These enable the user to easily connect to the Proteus arbitrary waveform transceiver and still offer some of 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	P9082/4/6D	P2582/4/8/12D	P1282/4/8/12D
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	P9082/4/6D	P2582/4/8/12D	P1282/4/8/12D
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 c	IBc/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 P128xD P258xD P908xD	625MHz 2.25GHz 4.5GHz	
MAX. USABLE FREQUENCY P128xD P258xD P908xD	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 P128xD P258xD P908xD	625MHz 2.25GHz 4.5GHz	
MAX. USABLE FREQUENCY P128xD P258xD P908xD	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 P908xD P128xD, P258xD	SCLK/32 SCLK/8
WAVEFORM	Square
RISE/FALL TIME (20% TO 80%)	<150ps
IMPEDANCE	LVCMOS
CONNECTOR	SMP

MARKER OUTPUTS		
NUMBER OF MARKERS P1282D, P1284D P1288,P2582,P2584, P9082D P12812D P2588D, P9084D P25812D, P9086D	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 P128xD, P258xD P908xD	2 pts 8 pts	
MARKER DELAY		
COARSE DELAY		
RANGE	0 to 2048 points	
RESOLUTION P128xD, P258xD P908xD	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 P128xD, P258xD P908xD Low Trigger Jitter Opt.	8 SCLK periods 32 SCLK periods SQRT(SCLK period^2 + 150e-12^2)
P128xD, P258xD P908xD	<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 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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P1282D 1.250 P1284D 1.250 P1288D 1.250 P12812D 1.250 P2582D 2.5G P2584D 2.5G P2584D 2.5G P25812D 2.5G P9082D 9GS/ P9084D 9GS/ P9086D 9GS/ OPTIONS 4M1 4GS/s N 4M2 4GS/s N 4M4 4GS/s N 8M1 8GS/s N 8M2 8GS/s N 8M2 8GS/s N 8M4 8GS/s N 16M1 16GS/s 16M2 16GS/s 16M3 16GS/s	CRIPTION GS/s, 16Bit, AWG, 1GS/s Memory, 2CH, 4 Markers GS/s, 16Bit, AWG, 1GS/s Memory, 4CH, 4 Markers GS/s, 16Bit, 2GS Memory, 8CH 8 Markers GS/s, 16Bit, 2GS Memory, 12CH 12 Markers S/s, 16Bit, 2GS Memory 2CH, 8 Markers S/s, 16Bit, 2GS Memory, 4CH, 8 Markers S/s, 16Bit, 2GS Memory, 8CH 16 Markers S/s, 16Bit, 2GS Memory, 12CH, 24 Markers S/s, 16Bit, 4GS Memory 2CH, 8 Markers S/s 16Bit, 4GS Memory 2CH, 8 Markers S/s 16Bit, 4GS Memory 4CH, 16 Markers S/s 16Bit, 4GS Memory 4CH, 16 Markers S/s 16Bit, 4GS Memory 6CH, 24 Markers Memory option for models P1282x & P2582x Memory option for models P1284x & P2584x Memory option for models P1288x, P2588x & P9084x Memory option for models P12812x, P25812x&P9086x
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16M1 16GS/s 16M2 16GS/s 16M3 16GS/s	Memory option for models P12812x, P25812x & P9086x
16M2 16GS/s 16M3 16GS/s	Memory option for models P9082x
16M3 16GS/s	Memory option for models P9084x
	Memory option for models P9086x
701122	BW Direct Output option for models P1282x & P2582x
DO2 9GHz B	BW Direct Output option for models Pxx84x & P9082x
	BW Direct Output option for models Pxx88x & P9084x
	BW Direct Output option for models Pxx812x & P9086x
	egment Control option for models P1282x & P2582x
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Ultra Lo	ow Trigger Jitter (200ps typ.) option for models
Ultra Lo	c & P2582x ow Trigger Jitter (200ps typ.) option for models
P1284x	(, P2584x & P9082x
P1288x	ow Trigger Jitter (200ps typ.) option for models k, P2588x & P9084x
	ow Trigger Jitter (200ps typ.) option for models 2x, P25812x & P9086x
G1 Low Wa	aveform Granularity option for models P1282x & P2582x
G2 Low Wa	aveform Granularity option for P1284x, P2584x & P9082x
G3 Low Wa	aveform Granularity option for P1288x, P2588x & P9084x
G4 Low Wa	aveform Granularity option for P12812x, P25812x&P9086x
ΔWV	s Single, 2.7GS/s Dual Channel 12 Bit Digitizer option dels P1284M, P2584M & P9082M
	Streaming option
	vel FPGA programming capability throgh desicion blocks -in Demodulation & digital Filters
	ore integration to allow simple FPGA control & programming
TBolt Rear pa	
SFP+ Rear pa	nel Thunderbolt3 USB (type C)