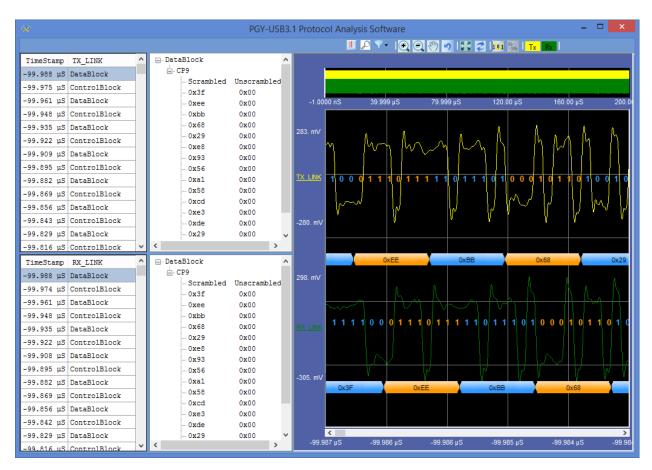




PGY-USB3.1 Protocol Analysis Software



The PGY-USB3.1 software helps in analyzing both LFPS and Superspeed patterns.

🐼 Prodigy Technovatio	ons - PGY-USB3.1 Protocol Ana	lysis Software	<u>Save</u>	Recall	Recall	Default		<u>About</u>) 😰 🔿 😣
Configure	Signal Source Oscilloscope Waveform Files Signal Assignment Tx/Rx	Source	Ref Type	Ref Le	evel	Hyster	esis	Invert	Run Single No Acq Run / Stop
Version :0.0.7	V Tx V	CH1 CH2	PERCENTAGE V		%	8	%		Run Options Analyze Export



The configuration panel enables the user to load the Tx and Rx signals.

	TX LINK RX L	INK					O LFPS	Run
	Lesia Malua	Ŭ.	Singl					
	Logic Value	Parameter	Min	Mean	Max	Result	Tabular View	
Configure		TPeriod	32.080 nS	32.094 nS	32.107 nS	v	SSPlus	No Ac
	Logic1	TRepeat	12.770 µS	12.770 µS	12.770 µS	v		Run / S
		TBurst	1.0238 µS	1.0238 µS	1.0238 µS	0		Run Opt
Trigger		TPeriod	31.987 nS	32.031 nS	32.740 nS		Detail View	
	Logic0	TRepeat	7.5948 μS	7.5948 μS	7.5948 μS			Analy
		TBurst	992.97 nS	992.97 nS	992.97 nS	2	- Acq Count	Expo
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Features:

1. The tabular view displays TPeriod, TRepeat and TBurst values in LFPS mode for Logic 1 and 0.

🔅 Prodigy Tec	nnovations - PGY-USB3.1 Protocol Analysis Software	<u>Save</u> <u>Recall</u> <u>Recall Default</u>	About	2 🔿 🛞
	TX_LINK	<u>RX_LINK</u>		Run
	E SCD	⊡- SCD	LFPS	Single
			Tabular View	- gr
Configure	ter Logic1	Logic1	SSPlus	No Acq
Coninguito	Eogic0			
		TBurst 1.0116 µS		Run / Stop
Trigger		TRepeat 12.770 µS		Run Options
			Detail View	Analyze
		Eogic1		
		Logic1	- Acg Count	Export
			1	
Version :0.0.7				



2. The tree view gives the LFPS type and timing related values of each Logic one and 0 of the LFPS type.

Signal Source Run O Oscilloscope Signal Assignment Signal Assignment Source Trigger Tx /Rx E:\Projects\USB3.1\Wavefr PERCENTAGE v Frigger Source Run / Stop Run / Stop Run / Stop Run / Stop Run Options Analyze	🐼 Prodigy Tech	hnovations - PGY-USB3.1 Protocol Ana	lysis Software	Save	Recall Recall Default	About	2 - 8
Version : 0.0.7	Trigger	O Oscilloscope O Waveform Files Signal Assignment Tx/Rx Tx v	E:\Projects\USB3.1\Wavefc	PERCENTAGE	<mark>× 50 % 8 %</mark>		Single No Acq Run / Stop Run Options

3. Invert option has been given in case the waveform that was captured is inverted.

Prodigy lechnov	ations - PGY-USB3.1 P	rotocol Analysis Softwa	re		<u>Save</u> <u>Recall</u>	Recall Default	<u>About</u>	
	<u>TX LINK</u>			<u>RX LI</u>	NK			Run
	- DataBlock		<u>^</u> 📄 🗖	ataBlock		^	LFPS	Single
	- ControlBlock			CP9			🔵 Tabular View	Single
Configure	SKP OS			Scramble	d Unscrambled		SSPlus	No Acq
connigure	- Scrambled U	Inscrambled		0x3F	0x00			
	- 0xCC	0xCC		- 0xEE	0x00			Run / Stop
Trigger	0xCC	0xCC		- 0xBB	0x00			Run Options
	0xCC	0xCC		- 0x68	0x00		Detail View	Analyze
	0xCC	0xCC		0x29	0x00			
	0xCC	0xCC		0xE8	0x00		- Acg Count	Export
	0xCC	0xCC	×	0x93	0x00	~	1	

4. After the waveform has been analyzed, the results are displayed by differentiating into Datablock and ControlBlock. The type of packet that has been captured is shown. (In this version of software, the inner packet details are not shown).

Both the scrambled bytes that has been captured and their unscrambled value is displayed in the software.



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						11.	P 💎 🛛 🖸	्र 🕙 乴 । 😂	🔁 1011 👫 To	Rx	
TimeStamp -99.988 µS	_	Â	DataBlock DataBlock Scrambled	Unscrambled							
-99.961 µS	ControlBlock DataBlock ControlBlock			0x00 0x00 0x00	-1.00	00 nS	39.999 µS	79.999 µS	120.00 µS	160.00 μS	200.
-99.935 µS	DataBlock ControlBlock		0x68 0x29 0xe8	0x00 0x00 0x00	283. mV	\sim	m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	n A I	4 m M	h
-99.895 µS -99.882 µS	ControlBlock		0x93 0x56 0xa1 0x58	0x00 0x00 0x00 0x00	TX.LINK	1000	1 1 1 0 1 1	1 1 1 1 0 1	1 1 0 1 0 0 0	1 0 1 1 0 1 0	0 1 0
-99.856 µS	DataBlock ControlBlock		0xcd 0xe3 0xde 0x29	0x00 0x00 0x00	-280. mV	h	' V	\bigvee	Vm	6 V v	$^{\vee}$
-99.816 µS	ControlBlock	~	<	>		_					
	DataBlock ControlBlock	Â	DataBlock - CP9 - Scrambled - 0x3f	Unscrambled 0x00	298. mV		OxEE	O×BE		0×68	0x29
99.948 µS 99.935 µS	DataBlock ControlBlock DataBlock ControlBlock		0xee 0xbb 0x68 0x29	0x00 0x00 0x00 0x00	RX_LINK		1 0 0 0 1 1	1 0 1 1 1 1	1 0 1 1 1 0 1	0 0 0 1 0 1 1	0 1
99.908 µS 99.895 µS	DataBlock ControlBlock		0xe8 0x93 0x56 0xal	0x00 0x00 0x00	-305. mV			\mathbf{V}		\mathbb{W}	
-99.856 µS	ControlBlock DataBlock		0xa1 0x58 0xcd 0xe3	0x00 0x00 0x00		0x3F	•	×EE	0xBB	0x68	
	ControlBlock DataBlock	-	0xde 0x29	0x00	-99.9	<	-99.986 u S	-99.986 u S	-99.985 u S	-99.984 uS	-99.

5. The Detail View window gives details of the bytes in each datablock/controlblock as well as the time at which the packet has been captured.

The waveform plot is linked with the packet being displayed on the grid. The plot contains various features like bus diagram , zoom, pan, representation of bits on the waveform and cursors.

Ordering Information

PGY-PD (shipment includes CD with PGY-USB3.1 Protocol Analysis Software) License is locked to oscilloscope

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