



**SEVEN**  
Solutions  
When every nanosecond counts

# WHITE RABBIT LEN Standalone Kit KIT WR-LEN

The set  
that will ease  
your first contact  
with the White  
Rabbit technology

### HIGHLIGHTS

- ✓ Sub-nanosecond time accuracy
- ✓ Compact size
- ✓ Distance range: over 80 km using fiber
- ✓ PTPv2, Sync-E supported
- ✓ Robustness & Redundancy
- ✓ Dynamic calibration

\* It doesn't need any configuration, it runs directly after the unpacking!

### KIT WR-LEN

It is the solution consisting on a set of **WR-LEN nodes** designed to ease the user's first contact with the White Rabbit Technology thanks to its **100% standalone operation** and its graphical interface. With two ports, the KIT LEN offers several possibilities, including synchronization over **daisy chain** configurations, distributes accurate timing from one node to others, synchronizes **IRIG-B** compliant devices and takes advantage of the WR network to send data and traffic. The following packages are available:

**KIT LEN-F:** The recommended one. It includes **three** LEN nodes and their interconnection elements.






**KIT LEN-B:** Includes **two** LEN nodes (enough to implement simple tests).  
**Optional:** 5 km fiber reel.

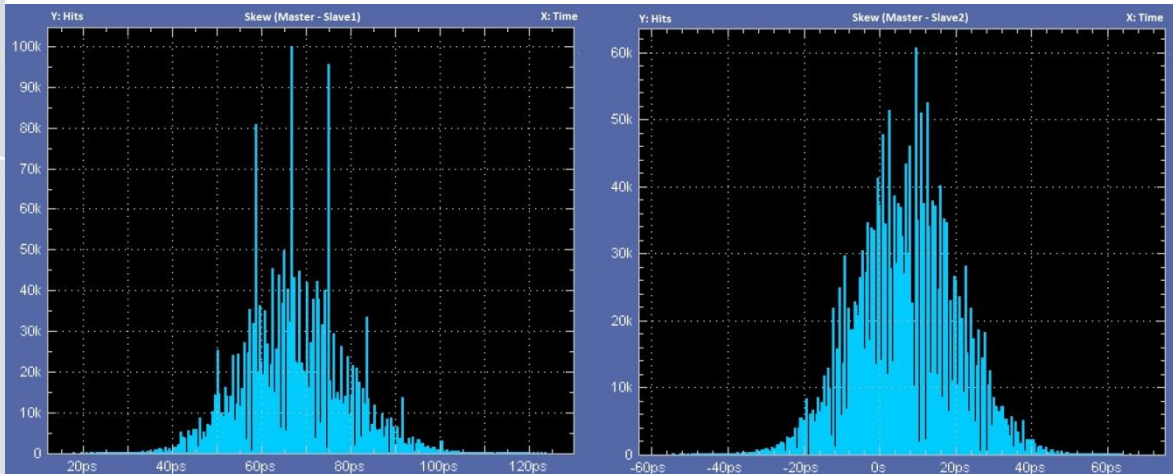


(+34) 958 285 024  
info@sevensols.com

www.sevensols.com  
2, Periodista Rafael Gómez Montero  
(GETIC 13) 18014, Granada-SPAIN



PACKAGING		FULL	BASIC	
<b>WR-LEN<sup>[1][2]</sup></b>	<p>White Rabbit Lite Embedded Node:</p> <ul style="list-style-type: none"> <li>Xilinx Artix-7 FPGA (XC7A35T)</li> <li>IRIG-B output</li> <li>PPS &amp; 10MHz inputs/outputs</li> <li>10/100/1000 Ethernet port</li> <li>2 SFP WR compliant ports</li> <li>Management USB-UART</li> <li>Standalone operation</li> </ul>		<b>X 3</b>	<b>X 2</b>
<b>SFP Transceivers</b>	<ul style="list-style-type: none"> <li>Pair of SFP transceivers:                             <ul style="list-style-type: none"> <li>Down: AXGE-3454 (1490TX/1310RX)</li> <li>Up: AXGE-1254 (1310TX/1490RX)</li> </ul> </li> <li>1.25Gbps bidirectional single-fiber link</li> <li>Single LC receptacle</li> <li>10 km point-to-point transmission</li> </ul>		<b>X 2</b>	<b>X 1</b>
<b>Coaxial Cable</b>	<p>SMA to BNC coaxial cable:</p> <ul style="list-style-type: none"> <li>BNC connector: Male &amp; Straight</li> <li>SMA connector: Male &amp; Straight</li> <li>Impedance 50 Ohms</li> </ul>		<b>X 4</b>	<b>X 4</b>
<b>Optical Fiber</b>	<ul style="list-style-type: none"> <li>2 m length</li> <li>LC connectors</li> <li>PC polish</li> <li>9/125 μm"</li> <li>Type OS1 / G625D</li> </ul>		<b>X 2</b>	<b>X 1</b>
<b>Fiber Reel (5 km)<sup>[3]</sup></b>	<ul style="list-style-type: none"> <li>LC connectors</li> <li>APC polish</li> <li>Singlemode type G652D</li> <li>10/125 μm"</li> </ul>		<b>Not included</b>	<b>Not included</b>



[1]: Each WR-LEN node includes its power supply: 5V & 1.2A.

[2]: To perform all the experiments it is recommended to have an oscilloscope and a GPS with 10MHz signals & PPS outputs.

[3]: The fiber reel is included by request.

