

PTP License

WR-ZEN family, WR-LEN+ & DOWR



SEVEN
Solutions

It is the package that unleashes the full potential of the WR to PTP interoperability.

WR-ZEN family, WR-LEN+ and DOWR easily distributes time and frequency to other equipment by implementing standard timing protocols such as PTP, NTP, IRIG-B, etc.

The PTP license allows you to unlock the PTP messages ratios for the announce, sync and delay request packets.

Also, it allows to unlock the different options to enable other profiles than the default such as telecom profiles ITU-T G.8265.1, G.8275.1 and power profile IEEE C37.238-2011.



Software Specifications / PTP license

System On-Chip	
Ports available	ETH0 & ETH1
Roles	Master and slave, only master, only slave
Interoperability	A device can be a WR slave and PTP master or vice versa. It can also work as WR and PTP master at the same time.

Software	
Daemon	ptpd_gpa
Profiles	<ul style="list-style-type: none"> • Default • ITU-T G.8265.1 • ITU-T G.8275.1 • IEEE C37.238-2011 (experimental)
Max slaves	16 unicast clients

Configuration options		
Options	With license	Without license (default profile)
Mode	Master, slave or disabled	Master, slave or disabled
Transfer mode	Multicast or unicast	Multicast
Unicast negotiation	Enabled or disabled	Disabled
Clock class	0 – 255	0
Announce ratio	-4 – 4 (1 msg 16s – 16 msg/s)	1 msg/sec
Sync ratio	-7 – 7 (1 msg 128s – 128 msg/s)	1 msg/sec
Delay Req. ratio	-7 – 7 (1 msg 128s – 128/s)	1 msg/sec
Delay Mechanism	End to End (E2E) or Peer to Peer (P2P)	End to end (E2E)
Network mode	IPv4, IPv6, or Ethernet (layer 2)	IPv4
Domain	0 – 255	0
Priority 1	0 – 255	0
Priority 2	Any number	0
Offset correction (ns)	Any number	0
BMCA	Enabled or disabled	Disabled
Servo K_p	Any number	1
Servo K_i	Any number	1