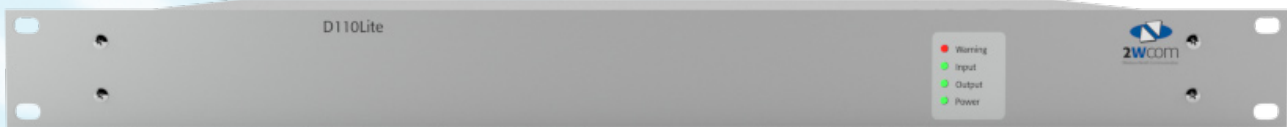


# D110Lite – Clock Distributor

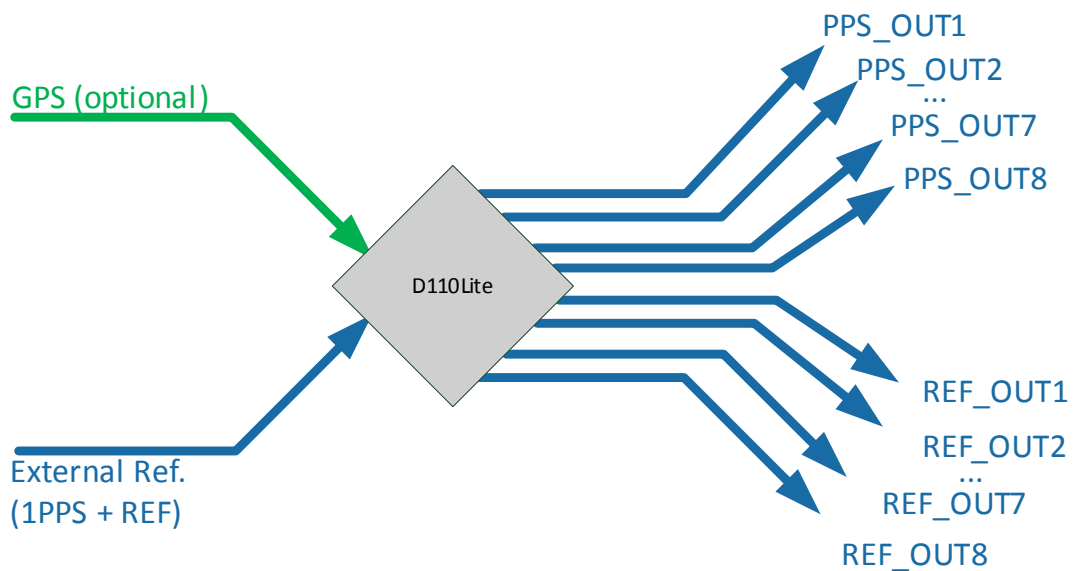
Professional clock distribution



## Device Description

 Energy efficient,  
no moving parts, no fan

The D110Lite is a cost effective clock and time distribution device to distribute externally fed 1PPS and reference (REF, i.e. 10MHz) inputs. For each input signal, there are eight BNC outputs (16 in total). Optionally the device can be equipped with an internal GPS receiver module that will source the 1PPS and a 10MHz REF signal internally.



## High Quality Clock Distribution

- Distribute timing information for devices and network components.
- Synchronize devices for Single Frequency Network (SFN) operation.

## Optional Internal GPS Receiver

- No need for external GPS receiver, ideal for sites that haven't been upgraded with GPS timing receivers yet.
- Automatic fallback to external reference inputs in case of GPS signal loss.



Rear view D110 lite

## D110Lite – Clock Distributor – Technical Details

### Interfaces

#### Time synchronization

1PPS	Interface: BNC – female 50 Ohm Type: TTL input (1PPS)
Ref In	Interface: BNC – female 50 Ohm Type: 0 .. 5 V input, 10 kHz .. 30 MHz
1PPS OUT1-OUT8	8x BNC – female 50 Ohm Type: TTL output, 5 V
REF OUT1-OUT8	typical 6 dB, max. 12 dB Type: TTL output, 5 V Standard: Ref In Option GPS: 10 MHz

#### GPS

Input	Interface: SMA, female Type: GPS antenna input
Parameters	Advanced internal GPS receiver with holdover functionality (100 ppb/24 h frequency accuracy)  Time to first fix: 26 s (coldstart), 1 s (warmstart) Sensitivity: -166 dBm (Tracking) Time Pulse Accuracy: 30 ns (RMS), 60 ns (99%)
Antenna supply	Passive: 0 V Active: 3,3 V / 5 V , 20 mA

#### Front Panel

LEDs	4x LEDs
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### General data

Power consumption	20 VA
Case dimensions	19", 1 HU depth: 310 mm width: 424 mm front panel: 484 mm
Weight	<6 kg
Cooling	passive, no fans
Housing	steel plate (aluminum-zinc coated)
Operating temp. range	0 .. +45°C
Storage temp. range	-40 .. +70°C
Power supply	1x internal, 90 .. 260 V, 47 .. 63 Hz

Version 21.08.2018  
These data are subject to  
modifications and amendments.  
Errors excepted

