

**First  
in the world**

# HD-PLC passed all tests for New CENELEC EMC Standard!

New EU EMC Standard CENELEC EN 50561-1 (Nov. 2012)

New Standard for broadband PLC assuring protection of radio services

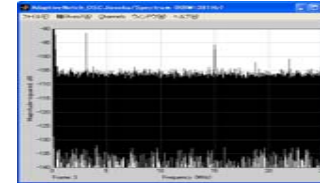


## New EMC Requirements

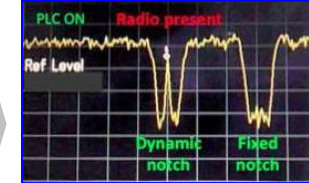
- Dynamic Notching
- Dynamic Power Control
- > HD-PLC is compliant to the standard

## Dynamic Notching

1. Search other radios



2. Add notches



<http://www.youtube.com/watch?v=xk2Dmt5NjRo>

**HD-PLC equipment passed tests (first in the world!) at CETECOM (Notified Body)**

## CETECOM TEST REPORT

### 7.1.1 PLC port

EMI Phenomenon	Frequency range	Basic standard	Result
conducted unsymmetrical disturbances	150 kHz – 1,6065 MHz	FprEN 50561-1 chapter 9.1 - 1	passed
conducted unsymmetrical disturbances	1,6065 MHz – 30 MHz	FprEN 50561-1 chapter 9.1 – 1	passed
conducted unsymmetrical disturbances	150 kHz – 30 MHz	FprEN 50561-1 chapter 9.1 - 2	passed
dynamic power control	1,6065 MHz – 30 MHz	FprEN 50561-1 chapter 9.2	passed
cognitive frequency exclusion	see each test case	FprEN 50561-1 chapter 9.3	passed
conducted asymmetrical disturbances	1,6065 MHz – 30 MHz	FprEN 50561-1 chapter 9.4	passed

**ALL OK!**



### SHORT TEST REPORT

Test Report No.: 1-6522/13-01-02

<b>Testing Laboratory</b> CETECOM ICT Services GmbH Untertürkheimer Straße 6 – 10 66117 Saarbrücken/Germany Phone: + 49 681 5 98 - 0 Fax: + 49 681 5 98 - 9075 Internet: <a href="http://www.cetecom.com">http://www.cetecom.com</a> e-mail: <a href="mailto:ict@cetecom.com">ict@cetecom.com</a>	<b>Applicant</b> Panasonic System Networks Co., LTD 4-1-52 Minoshima Hakata-Ku Fukuoka 812-8531 Japan Contact: Mr Toshiyuki Wakisaka Phone: +81-92-477-1671 Fax: +81-92-477-1285 e-mail: <a href="mailto:wakisaka.toshiyuki@jp.panasonic.com">wakisaka.toshiyuki@jp.panasonic.com</a>
<b>Manufacturer</b> same as applicant	

**Test Standard/s**  
 Power line communication apparatus used in low-voltage installations – radio disturbance characteristics – Limits and methods of measurement – Part 1: Apparatus for in-home use

<b>Kind of test item:</b> Model name: S/N serial number: HW hardware status: SW software status: Power supply:	<b>Test item</b> Power line equipment HD-PLC 1901 ROSE MAC: 00:50:5B:EE:00:25 prototype unknown AC: 230 V / 50 Hz
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HD-PLC 1901 sample adapter for CENELEC

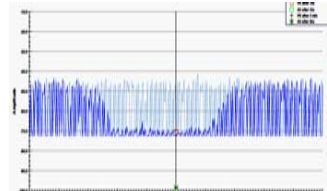
This test report is electronically signed and valid without hand-written signature. The public keys can be requested at the test laboratory to verify the electronic signatures.

**Test performed:**  
 Jens Hennemann, Testing Manager

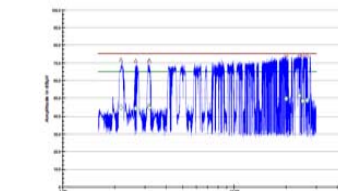
**Test Report authorised:**  
 Ulli Kraus, Senior Testing Manager



Test environment



Dynamic Notching



Dynamic Power Control