KATR - catalogue of IPv6 enabled CPEs

CZ.NIC

Ondřej Filip / ondrej.filip@nic.cz

Sep 27 2012 / RIPE-65 / IPv6 WG

About KATR

- KATalog Routerů = Catalogue of routers (CPEs)
- Mission
    - comprehensive list of IPv6 capable **home** routers
    - standard methodology for testing such devices with focus on **practical use – real laboratory tests**
    - **easy** for the user to compare and select a device
    - draw attention of normal users to IPv6
- History and related projects
    - we have been (unsuccessfully) trying to get into the IPv6 ready certification program since 2010
    - http://www.dnssec-tester.cz/ - a crowd-sourced overview of DNSSEC support in home routers

What we test and collect

Tested

- IPv6 fuctions
  - WAN, LAN autoconfiguration (RDNSS, DHCPv6)
  - tunnel support (6to4, 6in4, 6rd, Teredo)
  - IPv6 firewall
  - IPv6 passthrough
  - IPv6 only capable
- DNSSEC support

Collected

- Dimensions
- Connectors and antennas (type and number)
- LAN, WAN, WLAN speed
- Multimedia streaming support
- Alternative firmware support
- USB disk/printer sharing support
- etc.

First round

- Prepared for the World IPv6 launch (2012/06/06)
- In cooperation with a Czech hardware retailer
- CPEs declared to support IPv6 were selected from the retailers offer
- 13 out of 147 devices declared IPv6 support
- 11 obtained for testing
- 9 with functional IPv6
- 5 vendors

No IPv6
IPv6 declared

The website

- http://katr.labs.nic.cz
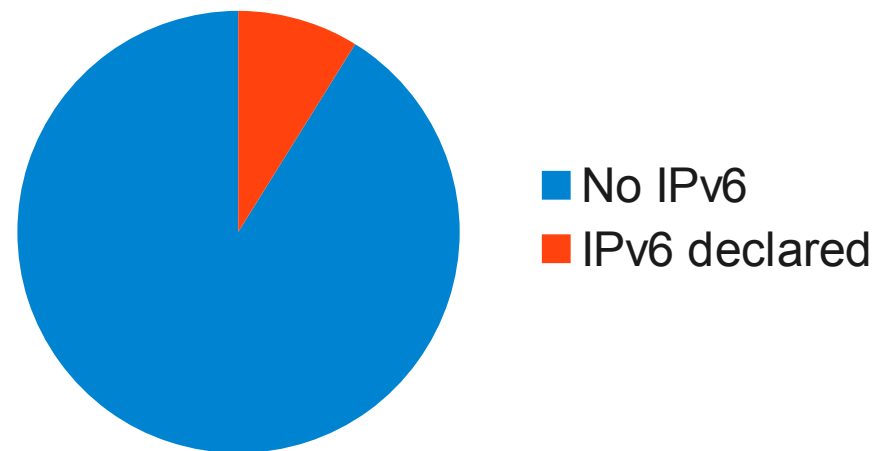
- Review page
- Manufacturer page
- Side-by-side comparison
- Filter search

Review page

ROUTER CATALOG

BETA

| HOMEPAGE | COMPARISON | FILTER SEARCH | FAQ | ABOUT |

Homepage :: Reviews :: ASUS RT-N66U rev. B1, May 31, 2012

MANUFACTURERS

- ASUS
- Cisco
- D-Link
- NETGEAR
- ZyXEL

ASUS RT-N66U REV. B1, MAY 31, 2012

Manufacturer	ASUS
Model name	RT-N66U
Hardware revision	B1
Model code	
Firmware	3.0.0.3.112
Review date	May 31, 2012
Author	Petr Černohouz
Comparison	✚ Select for comparison

Review content

- Test results
- Picture gallery

Test results

PARAMETER	VALUE	NOTE
Hardware		
Outside look		
Dimensions		
Length [mm]	207.0	
Width [mm]	148.8	
Height [mm]	35.5	

Side-by-side comparison

PARAMETER	ASUS RT-N66U REV. B1, 3.0.0.3.112	CISCO RV110W REV. V01, 1.0.3.5	D-LINK DIR-645 REV. A1, 1.01	NETGEAR WNDR3800, 1.0.0.24
Hardware				
Outside look				
Dimensions				
Length [mm]	207.0	150.0	117.0	223.0
Width [mm]	148.8	150.0	95.0	153.0
Height [mm]	35.5	30.0	190.0	32.0
Weight [g]	450.0	280.0	341.5	500.0
Connectors and antennas				
WAN type	ethernet	ethernet	ethernet	ethernet
Number of LAN ports	4	4	4	4
Number of USB ports	2	0	1	1
Slot for SD card	No	No	No	No
Slot for CF card	No	No	No	No
Number of antennas	3	2	6	4
Internal antenna	No	No	Yes	Yes
External antennas	Yes	Yes	No	No
Removable antennas	Yes	No	No	No
Can be POE powered	No	No	No	No
Can power POE devices	No	No	No	No

Filter search

FILTER SEARCH

PARAMETER	VALUE
WAN speed	☐ 100 (0) ☑ 1000 (3)
LAN speed	☐ 100 (0) ☐ 1000 (3)
Number of LAN ports	4 (11)
IPv6 support	Yes (11)
IPv6 firewall	☐ No (2) ☑ Yes (3)
DNSSEC passthrough	Yes (11)
DNSSEC support in DNS server	Yes (11)
Wall mountable	☐ No (3) ☐ Yes (0)
Number of antennas	☐ 2 (2) ☐ 3 (0) ☐ 4 (0) ☐ 6 (1)
External antennas	☐ No (3) ☐ Yes (0)
Removable antennas	☐ No (3) ☐ Yes (0)
Number of USB ports	☐ 0 (1) ☑ 1 (3) ☐ 2 (0)
Support for USB printer	☐ No (0) ☐ Yes (3)
Support for USB disk	☐ No (0) ☐ Yes (3)

Matching reviews

Manufacturer	Device	Hardware revision	Firmware	Review	Comparison
D-Link	DHP-1565	A1	1.00	May 30, 2012, Petr Černohouz	✚ Select for comparison
D-Link	DIR-645	A1	1.01	May 29, 2012, Petr Černohouz	*Already selected*
D-Link	DIR-657	A1	1.00	May 30, 2012, Petr Černohouz	✚ Select for comparison

Future plans

- More devices in regular updates (~ once in 6 month)

- More detailed plain-text reviews

- Broader cooperation with retailers

  - easy to understand IPv6 score for retailers to display

  - API for automatic data retrieval and display on retailers pages
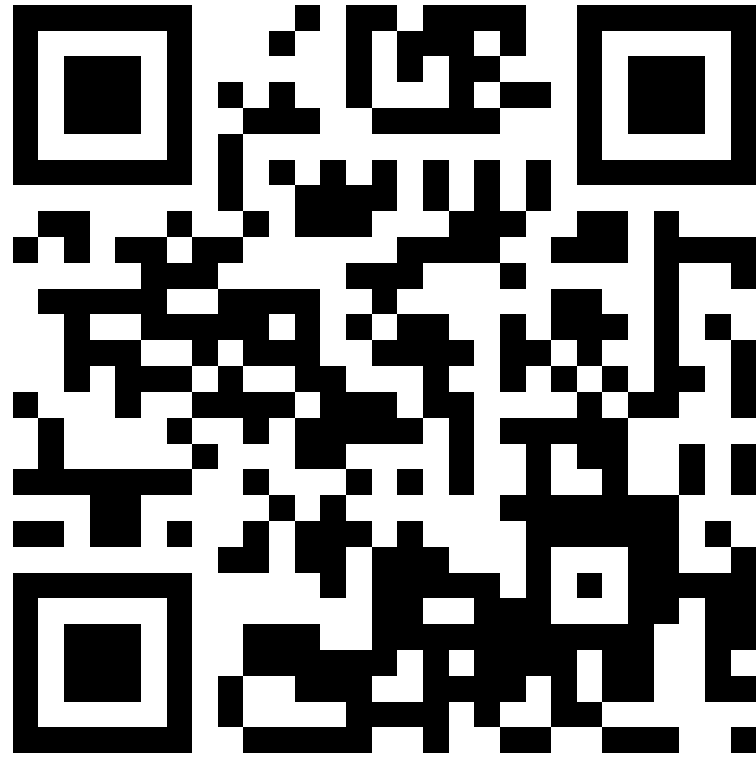
Thank you for your attention

http://katr.labs.nic.cz