

Product Sheet, GEEA Criteria 2007

Broadband Equipment



Scope

Mains operated equipment for IT. Broadband equipment cover the consumer side (end user equipment), for services providing a two way data rate of 144 kb/s or above. The models concerned must be available through the trade in Europe in the same configuration as indicated in the registration. The product as sold to the customer should be able to operate on mains voltage (230 V AC). This includes portable equipment that is sold with an external power supply.

Criteria

Broadband equipment complies with GEEA criteria if the following criteria are met:

Category	Criteria	Basis for criteria
ADSL/VDSL-modem powered by USB	The power consumption in off is 0 W or less.	EU CoC
	The power consumption in on-mode is 1.5 (+ 2) W (for each additional function*) or less.	EU CoC
ADSL-modem, cable modem, PLC modem	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 6.0 (+ 2) W (for each additional function*) or less.	EU CoC
VDSL modem	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 8.0 (+ 2) W (for each additional function*) or less.	EU CoC
WLAN access point	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 6.0 W or less.	EU CoC
Small printer server	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 5.0 W or less.	EU CoC
VoIP device	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 5.0 W or less.	EU CoC
Small hubs and switches	The power consumption in off is 0.3 W or less.	EU CoC
	The power consumption in on-mode is 5.0 W or less.	EU CoC

* Additional allowance on 2 W is given for each additional function of the following: WLAN 802.11b/g, WLAN 802.11a, FXO, FXS/VoIP, hub/switch for several ports, DECT and Bluetooth

Additional criteria

Furthermore, end-user equipment has to respond to and support the Power Cut Back (PCB) function of the Network Equipment, as described by ITU-T Recommendations on xDSL (e.g. ITU-T G.992.5 paragraph "8.13.3.2.11 R-MSG-PCB") for ADSL2/2+).

Definitions

Term	Definition
Off-mode	The mode where the equipment is connected to the power source and is switched off i.e. does not fulfill any function.
On-mode	DSL ports are idle, no traffic on the other network ports.

Definitions and Test Method

The measurement has to be performed on the "A" interface as described in the standard ETSI ETS 300 132-2, "Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by direct current (dc)".

Basis for criteria

EU CoC: EU Code of Conduct on Energy Consumption of Broadband Equipment Final v1 - 19 July 2006

Exceptions

Criteria	Code of Conduct	GEEA
Network equipment included in the criteria	Yes	No