

**Access, Terminals, Transmission and Multiplexing (ATTM);
Energy Efficiency of Energy Related Products (ErPs)
with regards to their Ecodesign Requirements;
Network Apparatus and Customer Premises Equipment
relating to Cable Network Operator's Services**

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[ETSI TR 102 877 V1.1.1 \(2011-05\)](https://standards.iteh.ai/catalog/standards/etsi/4636d2d0-b4c6-43eb-a34a-d7a862fd739c/etsi-tr-102-877-v1-1-1-2011-05)

<https://standards.iteh.ai/catalog/standards/etsi/4636d2d0-b4c6-43eb-a34a-d7a862fd739c/etsi-tr-102-877-v1-1-1-2011-05>



ReferenceDTR/ATTM-003005

Keywords

cable, IPCable

ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
Association à but non lucratif enregistrée à la
Sous-Préfecture de Grasse (06) N° 7803/88

(<https://standards.iteh.ai>)
Document Preview

Important notice

Individual copies of the present document can be downloaded from:

<http://www.etsi.org>

The present document may be made available in more than one electronic version or in print. In any case of existing or perceived difference in contents between such versions, the reference version is the Portable Document Format (PDF). In case of dispute, the reference shall be the printing on ETSI printers of the PDF version kept on a specific network drive within ETSI Secretariat.

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<http://portal.etsi.org/tb/status/status.asp>

If you find errors in the present document, please send your comment to one of the following services:

http://portal.etsi.org/chaicor/ETSI_support.asp

Copyright Notification

No part may be reproduced except as authorized by written permission.
The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 2011.
All rights reserved.

DECT™, **PLUGTESTS™**, **UMTS™**, **TIPHON™**, the TIPHON logo and the ETSI logo are Trade Marks of ETSI registered for the benefit of its Members.

3GPP™ is a Trade Mark of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

LTE™ is a Trade Mark of ETSI currently being registered

for the benefit of its Members and of the 3GPP Organizational Partners.

GSM® and the GSM logo are Trade Marks registered and owned by the GSM Association.

Contents

Intellectual Property Rights	4
Foreword.....	4
1 Scope	5
2 References	5
2.1 Normative references	5
2.2 Informative references.....	5
3 Abbreviations	6
4 Applicable references.....	7
4.1 Existing ecodesign guidelines or requirements	7
4.1.1 EU Codes of Conduct on Energy Consumption	7
4.1.2 EU Ecodesign Requirements	7
4.1.3 ETSI.....	7
4.1.4 Energy Star	7
4.2 Ecodesign references on Broadband Communication Equipment.....	8
4.2.1 CoC on Energy Consumption of Broadband Communication Equipment Version 4.....	8
4.2.1.1 Customer Premises Equipment	8
4.2.1.2 CMTS Equipment	10
4.2.2 Ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment	12
4.3 Ecodesign reference on networked standby	13
4.4 Ecodesign references on Power Supplies	13
4.4.1 CoC on Efficiency of External Power Supplies.....	13
4.4.2 Ecodesign requirements for no-load condition electric power consumption and average active efficiency of external power supplies	14
4.4.3 ETSI ATTU External Power Supply Standards	14
4.5 Ecodesign references on Settop Boxes.....	14
4.6 Ecodesign references on energy consumption measurement.....	14
4.6.1 ETSI Draft document - Environmental Engineering (EE): Measurement methods and limits for energy consumption of End-user Broadband Equipment (CPE)	14
5 Operation Modes	15
5.1 Off Mode.....	15
5.2 Standby Mode	15
5.3 Active Mode.....	15
5.3.1 On mode	15
5.3.2 Low power mode	16
5.4 Networked standby.....	16
Annex A: Bibliography	17
History	18