

EN 300 473 v1.1.2 (1997-08)

European Standard (Telecommunications series)

Digital Video Broadcasting (DVB); Satellite Master Antenna Television (SMATV) distribution systems

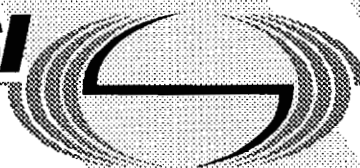
European Broadcasting Union



Union Européenne de Radio-Télévision

DVB
Digital Video
Broadcasting

ETSI



European Telecommunications Standards Institute

Reference

REN/JTC-00DVB-48 (4do00idc.PDF)

Keywords

DVB, digital, video, broadcasting, MPEG, TV,
SMATV***ETSI Secretariat***

Postal address

F-06921 Sophia Antipolis Cedex - FRANCE

Office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - 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

X.400

c= fr; a=atlas; p=etsi; s=secretariat

Internet

secretariat@etsi.fr

<http://www.etsi.fr>

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 1997.

© European Broadcasting Union 1997.

All rights reserved.

Contents

Intellectual Property Rights.....	4
Foreword	4
1 Scope.....	5
2 Normative references	5
3 Symbols and abbreviations	6
3.1 Symbols	6
3.2 Abbreviations.....	6
4 SMATV distribution system concepts	7
5 SMATV System A	8
5.1 Full implementation of SMATV System A.....	8
5.2 Simplified implementation of SMATV System A	8
6 SMATV System B	10
6.1 SMATV-IF	11
6.2 SMATV-S.....	11
7 MPEG-2 transport layer	11
8 Framing structure	11
Annex A (informative): Channel model of SMATV distribution systems	12
A.1 Channel model response	12
A.2 Definition of adaptive equalization requirements.....	12
Annex B (informative): Examples of 64-QAM and QPSK performance with equalizers.....	15
B.1 SMATV System A - Simulation results.....	15
B.2 SMATV System B - Simulation results	16
Annex C (informative): Bit rate consideration for SMATV distribution systems.....	20
Annex D (Informative): Bibliography.....	22
History.....	23