

CTA Standard

Cable Compatibility Requirements

CTA-818-E

(Formerly CEA-818-E)

August 2005

This standard was withdrawn by CEA's Cable Compatibility Committee on November 13, 2012.



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Technology
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(Formulated under the cognizance of the CEA **R8 Cable Compatibility Committee**.)

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FOREWORD

This standard was developed under the auspices of the Consumer Electronics Association (CEA) R8 Cable Compatibility Committee.

CEA-818-E is presented in two parts. Part I defines the minimum requirements that shall be met by the cable TV system, and Part II defines the minimum requirements that shall be met by the TV receiver or other cable-compatible consumer device. Part I and Part II go together and require coordination with each other. However, Part I and Part II have been written so that they can each be considered as separate standards. As such, Part I extensively references applicable SCTE standards. Part I also includes requirements for 8 and 16-VSB modulated signals.

It is emphasized that the requirements are *minimum* requirements and are in no way intended to constrain either the cable system operator or the consumer electronics manufacturer from offering and supporting additional services and/or features.

CEA-818-E supersedes EIA/CEA-818-D.

NOTE—In 2003, CEA redesignated EIA/CEA standards and bulletins, and those EIA standards under CEA auspices, as CEA standards or bulletins, respectively. Please see <http://global.ihs.com> for the most recent designation.

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CONTENTS

PART I—MINIMUM REQUIREMENTS FOR RECEIVER-COMPATIBLE DIGITAL CABLE TV SYSTEMS	1
1 Scope	1
1.1 Baseline Services	1
1.2 Applicability	1
2 References	1
2.1 Normative References	1
2.1.1 Normative Reference List	1
2.1.2 Normative Reference Acquisition	2
2.2 Informative References	2
2.2.1 Informative References List	2
2.2.2 Informative References Acquisition	2
3 Glossary	2
4 Physical Layer	3
4.1 Mechanical and Electrical Interface	3
4.1.1 Maximum Individual Carrier Amplitude	3
4.1.2 Digital Television Signals	3
4.1.3 Nominal Digital Signal Levels	3
4.1.4 Forward Data Channel	3
4.1.5 Analog Transmission Standard	3
4.1.6 Adjacent Channel Requirements	4
4.2 Frequency Plan	4
4.3 Modulation	4
4.3.1 Analog NTSC Television	4
4.3.2 Digital Channels	4
4.3.3 Forward Data Channels	4
5 Audio-Video Formats	4
5.1 Digital Audio Format	4
5.2 Digital Video Format	4
5.3 Digital Closed Captions	4
5.4 Analog Formats	4
6 Transport Streams	4
7 System Information for Digital Transport Streams	4
7.1 System Information Delivered In-Band	4
7.2 System Information Delivered Out-of-band	4
7.3 Program Specific Information (PSI)	5
7.3.1 Analog TSID	5
7.4 Channel Number	5
8 Emergency Alert Service (EAS)	5
8.1 Unencrypted Programs	5
8.2 Scrambled Programs	5
8.3 Analog NTSC Programs	5

9 POD Module 5

PART II—MINIMUM REQUIREMENTS FOR CABLE-COMPATIBLE DIGITAL TV RECEIVERS 7

1 Scope..... 7

1.1 Baseline Services 7

2 References 7

2.1 Normative References..... 7

 2.1.1 Normative Reference List 7

 2.1.2 Normative Reference Acquisition 8

2.2 Informative References 8

 2.2.1 Informative References List..... 8

 2.2.2 Informative References Acquisition 8

3 Glossary..... 8

4 Physical Layer 9

 4.1 RF Interface 9

 4.2 Frequency Plan 9

 4.3 Forward Data Channel Receiver 9

 4.4 Modulation..... 9

 4.4.1 Analog NTSC Television Channels 9

 4.4.2 Digital Channels..... 9

 4.4.3 Forward Data Channels..... 10

5 Audio-Video Formats..... 10

 5.1 Analog Audio-Video Format 10

 5.2 Digital Audio Format 10

 5.3 Digital Video Format..... 10

 5.4 Digital Closed Captions 11

 5.5 Digital Content Advisory Descriptor..... 11

6 Transport Streams 11

7 System Information..... 11

8 Emergency Alert Service (EAS)..... 11

9 POD Module Interface..... 11

 9.1 Data Communications..... 11

 9.2 Physical Interface 11

 9.3 Link Interface 11

 9.4 Application Resources..... 11

Tables

Table 1 Digital Signal Requirements for VSB..... 3

Table 2 Nominal Digital Signal Levels for VSB 3

Table 3 Compression Format Constraints for Digital Cable..... 10

CABLE COMPATIBILITY REQUIREMENTS

PART I—MINIMUM REQUIREMENTS FOR RECEIVER-COMPATIBLE DIGITAL CABLE TV SYSTEMS

1 Scope

CEA-818-E Part 1 sets forth the requirements that a cable TV system meets at each receiver interface in order to support baseline services provided to consumer-owned cable-compatible digital TV receivers and other cable-compatible consumer devices that comply with the requirements of Part II.

1.1 Baseline Services

The baseline services that may be provided are:

- a) Analog NTSC television signals that are not scrambled.
- b) Digital television programs that are not encrypted.
- c) Utilizing a Point-of-Deployment (POD) replaceable security module¹ supplied by the cable TV system operator, those encrypted digital television programs that can be authorized by one-way downstream data transmission to the POD module. These include subscription television programs and pay-per-view programs that are separately ordered by telephone.
- d) Event information data to support the navigation function in the receiver.
- e) Emergency Alert Service.

1.2 Applicability

When baseline services are provided, cable TV systems shall provide them to each receiver interface point in accordance with Part I. If the technologies referenced in Part I are employed, cable TV systems shall comply with the applicable technical requirements listed in Part I. Other services, which are not covered by CEA-818-E, may also be present at this interface.

2 References

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Part I, Section 2.1.

2.1.1 Normative Reference List

ANSI J-STD-042, Emergency Alert Message for Cable, December 2002

ATSC A/53C, ATSC Digital Television Standard, May 21, 2004

ATSC A/65B, Program and System Information Protocol for Terrestrial Broadcast and Cable, March 18, 2003

CEA-23-A, Measurement Procedures for Determining Compliance with FCC Rule for "Cable-Ready Consumer Electronics Equipment," December 2004

CEA-542-B, Cable Television Channel Identification Plan, July 2003

CEA-608-C, Line 21 Data Service, August 2005

CEA-708-B, Digital Television Closed Captioning (DTVCC), December 1999

¹ The Point of Deployment (POD) module is also known as a CableCARD™ device.

CEA-818-E

FCC Regulations, Part 76, Cable Television Service, 47 C.F.R. 76

ANSI/SCTE 28 2004, HOST-POD Interface

ANSI/SCTE 40 2004, Digital Cable Network Interface Standard

ANSI/SCTE 41 2004, POD Copy Protection System

ANSI/SCTE 43 2004, Digital Video Systems Characteristics for Digital Television

ANSI/SCTE 54 2004, Digital Video Service Multiplex and Transport System for Cable Television

ANSI/SCTE 65 2002 (formerly DVS 234), Service Information Delivered Out-of-Band for Digital Cable Television

2.1.2 Normative Reference Acquisition

CEA Standards:

- Global Engineering Documents, World Headquarters, 15 Inverness Way East, Englewood, CO USA 80112-5776; Phone 800-854-7179; Fax 303-397-2740; Internet <http://global.ihs.com> ; Email global@ihs.com

ATSC Standards:

- Advanced Television Systems Committee (ATSC), 1750 K Street N.W., Suite 1200, Washington, DC 20006; Phone 202 872 9160; Fax 202-828-3131; Internet <http://www.atsc.org>

FCC Regulations:

- U.S. Code of Federal Regulations, 47 C.F.R. 76, U.S. Government Printing Office, Washington, D.C. 20401; Internet <http://wireless.fcc.gov/rules.html>

ANSI/SCTE Standards:

- Society of Cable Telecommunications Engineers (SCTE), 140 Philips Road, Exton, PA 19341; Phone 800-542-5040; Fax 610-363-5898; Internet <http://www.scte.org> ; Email info@scte.org

2.2 Informative References

2.2.1 Informative References List

CEA-CEB8, Consideration of EIA-608-B Data Within the DTV Closed Captioning (EIA-708-B) Construct, October 2000

CEA-CEB10-A, EIA-708-B Implementation Guidance, December 2002

2.2.2 Informative References Acquisition

ANSI/CEA Standards:

- Global Engineering Documents, World Headquarters, 15 Inverness Way East, Englewood, CO USA 80112-5776; Phone 800-854-7179; Fax 303-397-2740; Internet <http://global.ihs.com> ; Email global@ihs.com

3 Glossary

ANSI	American National Standards Institute
ATSC	Advanced Television Systems Committee
C/(N+I)	Carrier to Noise-plus-Interference Ratio
DVS	Digital Video Subcommittee
EAS	Emergency Alert System
FCC	Federal Communications Commission
MPEG	Moving Picture Expert Group
NTSC	National Television Systems Committee