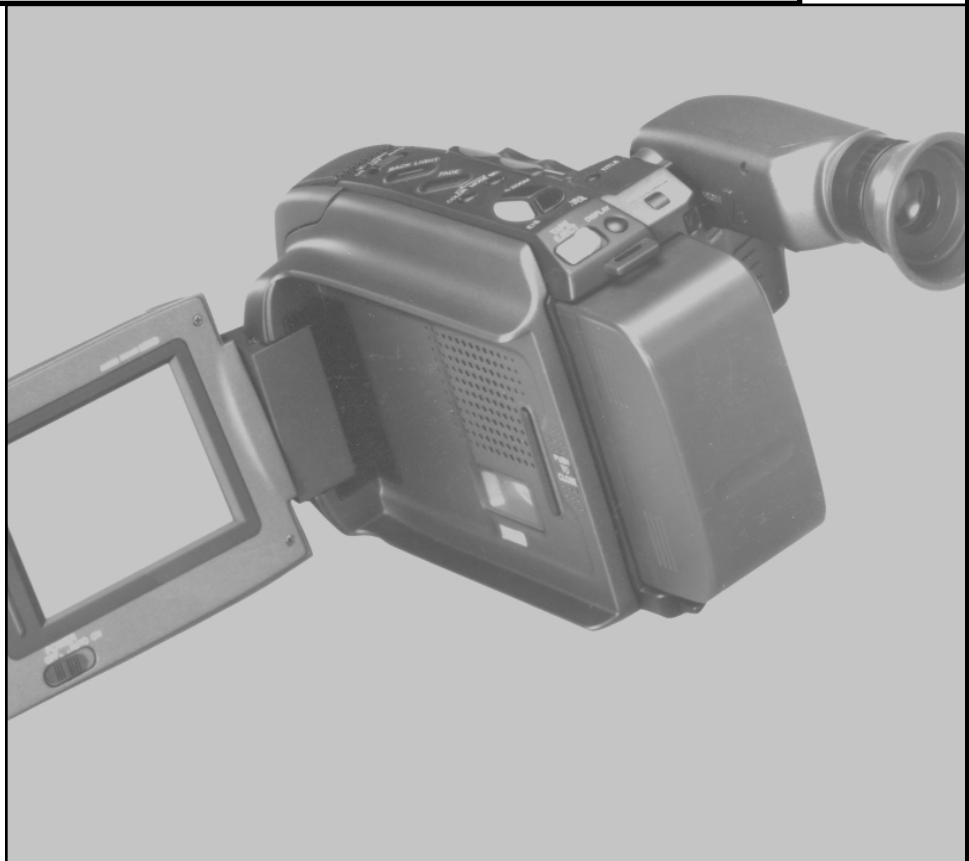


Consumer Electronics



Consumer Electronics

CEA Standards and Engineering Publications



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ANTENNAS

EIA-774

TV Receiving Antenna Performance Presentation and Measurement

This standard is intended to provide television receive antenna manufacturers with appropriate test and measurement procedures to examine antenna performance parameters necessary to comply with elements of the CEMA TV Antenna Selector Map program, specifically EIA CEB-6. Essential elements include procedures to determine antenna gain, front-to-back ratio, directivity and distortion performance of active antennas with integrated amplifiers.

Product Code 2 Dec, 1998 **COMMITTEE: R-5**
\$40.00

CEB6-C

TV Receiving Antenna Manufacturers Guide to Categorizing Antennas for Use With the CEA TV Antenna Selector Map Program - Antenna Types and Characteristics - Minimum Performance Requirements - Packaging and Marking Specifications

This bulletin was prepared to provide manufacturers of television receiver antennas with appropriate guidance on determining antenna categories and minimum performance requirements to comply with the CEA TV Antenna Selector Map program. Essential elements of this program include color coding of various television reception environments in a market, with corresponding color-coded marking of antennas to provide reception. See EIA-774 for test and measurement procedures. The CEA copyrighted logo for marking antennas and logo use guidelines are available from CEA.

Product Code 2 Nov, 1999 **COMMITTEE: R-5**
\$40.00

CEB7

TV Receiving Antenna Manufacturers Guide to Indoor Antennas for Use with the CEA Indoor TV Antenna Certification Program - Indoor Antenna Characteristics - Packaging and Marking Specifications - Minimum Performance Requirements

This Bulletin was prepared by the CEA R-5 (Antennas) Committee to provide manufacturers of indoor television receiver antennas with appropriate guidance on determining antenna characteristics and minimum performance requirements to comply with the CEA Indoor TV Antenna Certification program. Essential elements of this program include indoor TV antenna technical specifications and the use of a CEA copyrighted certification logo. Test and measurement procedures are contained in the EIA-774 standard, and the CEA copyrighted logo for marking antennas and logo use guidelines are available from CEA.

Product Code 2 Nov, 1999 **COMMITTEE: R-5**
\$36.00

AUDIO

DISC RECORDING

EIA-295

Disc Recording Characteristics

This Standard provides recording and reproducing characteristics for disc records from 30 to 15,000 Hz, and definition of standard recording characteristics.

Product Code 2 Nov, 1982 **COMMITTEE: R-4.2**
\$30.00

EIA-418

Standard for Decoders (Type 1) for Reproducing Matrix Quadraphonic Disc Records

This Standard specifies the decoding operation for reproducing Type I matrix quadraphonic disc records as defined.

Product Code 2 Jan, 1981 **COMMITTEE: R-3**
\$30.00

EIA-425

Standards for Reproducing Discrete Four-Signal Disc Records

This Standard specifies the requirements of equipment for reproducing discrete four-signal disc records.

Product Code 2 Sep, 1975 **COMMITTEE: R-3**
\$30.00

GENERAL

EIA-400

EIA Reproducer Test Tape: Full-Track, 1/4" (6.3 mm) Width, Open-Reel (for Tape Speeds of 7.5 in/s = 190.5 mm/s, and 3.75 in/s = 95.3 mm/s)

Specifies the characteristics of a reproducer test tape.

Product Code 2 Aug, 1972 **COMMITTEE: R-3**
\$30.00

HOME AUDIO

EIA-490

Standard Test Methods of Measurement for Audio Amplifiers

Establishes methods to specify performance characteristics under both dynamic and static conditions for audio amplifiers.

Product Code 2 Nov, 1981 **COMMITTEE: R-3**
\$59.00

EIA-518

Tape Recorder Measurement Standard (ANSI/EIA-518-86)

Specifies a standard measurement methodology for consumer high fidelity analog open-reel and cassette tape recording and reproducing equipment. It establishes reference levels of which variable specifications such as signal-to-noise ratio, maximum recorded level and meter calibration are identified. Ambiguities arising from variations in the choice of reference input and output levels are also addressed so that consumers can choose suitable products for use in a high-fidelity system.

Product Code 2 Aug, 1986 **COMMITTEE: R-3**
\$71.00

AUDIO, HOME AUDIO (cont.)

EIA-560

Standard Method of Measurement for Compact Disc Players (ANSI/EIA-560-90)

Defines measurement methods and the form of disclosure for performance characteristics of consumer compact disc (CD) players. It applies to domestic reproducing equipment for CDs.

**Product Code 2 Jun, 1990 COMMITTEE: R-3
\$74.00**

EIA/IS-9

Standard Method of Measurement for Phonograph Cartridges Used in Analog Disc Playback Equipment

Describes in practical terms the conditions, procedures, and interpretations of the results of the test performed on an electromechanical (phonograph cartridge) transducer. It defines methods of measurement and reporting test results.

**Product Code 2 Sep, 1983 COMMITTEE: R-3
\$30.00**

EIA/IS-11

Turntable Measurement Standard

This document has been designed to provide the common basis for specification and measurement of performance of record playing equipment. It defines both primary and secondary performance specifications together with practical and simple methods of measuring these specifications.

**Product Code 2 Nov, 1983 COMMITTEE: R-3
\$49.00**

CPEB6-A

Preferred Voltage and Impedance Values for the Interconnection of Audio Products

Establishes preferred voltage and impedance values for inputs and outputs of generally available, mass produced, audio products and accessories. These values guide manufacturers in the product design in order to facilitate the interconnection of products of different manufacturers and permit the addition of other products or accessories to integrated systems which have input and output connections.

**Product Code 2 Jul, 1974 COMMITTEE: R-3
\$30.00**

CPEB7

Audio Rectification

Establishes standard methods of measurement to prevent interference resulting from audio rectification.

**Product Code 2 Nov, 1974 COMMITTEE: R-3
\$30.00**

MICROPHONES

EIA-221-A

Polarity or Phase of Microphones for Broadcasting, Recording, and Sound Reinforcement

This Standard deals with connections and methods of testing which will result in correct phasing of microphones for use in broadcasting, recording, and sound reinforcement. It is well-known that correct phase may be important to the operation of any system employing, simultaneously, more than one microphone. This is especially true when two similar microphones are placed in symmetrical relation to a performer.

**Product Code 2 Oct, 1979 COMMITTEE: R-4.2
\$30.00**

MOBILE AUDIO

EIA/IS-25

Interconnection Standards for Automobile Sound Systems

Specifies the wiring color code and signal parameters for the installation and interconnection of vehicular sound systems, and is written to aid the dealer, installer, and consumer.

**Product Code 2 Jun, 1986 COMMITTEE: R-6
\$30.00**

AUTOMATIC DATA CAPTURE

EIA-556-B

Electronic Industries Association: Outer Shipping Container Bar Code Label Standard (ANSI/EIA-556-B-99)

The intent of this Standard is to facilitate automation within shipping, distribution, transportation and receiving operations using bar code technology. This label should be affixed to outer shipping containers, boxes, cartons, pallets, cases, barrels,

**Product Code 2 Nov, 1999 COMMITTEE: R-9
\$107.00**

BAR CODES

EIA-621

Electronic Industries Association - Consumer Electronics Group Product and Packaging Bar Code Standard (ANSI/EIA-621-95)

Assists manufacturers of consumer electronics in properly bar coding products that will move through the retail distribution channel to the ultimate consumer. The 12 digit universal product code, version "A" (UPC-A) and/or the 13 digit European article numbering system (EAN) bar codes are accepted worldwide for point-of-sale data capture by retailers. Uniquely identifying the manufacturer and the product at the stock keeping unit (SKU) level, these bar codes, as well as a bar coded serial number, may be used on consumer electronic products, and the sales carton used for containing/displaying the product on the retailer's shelf/counter.

**Product Code 2 Jul, 1995 COMMITTEE: R-9
\$61.00**

BAR CODES (cont.)

EIA-624

Electronic Industries Association - Product Package Bar Code Label Standard for Non-Retail Applications (ANSI/EIA-624-95)

This Standard defines minimum requirements for identifying product packages that are distributed outside the originating location. These specifications provide maximum flexibility for size, location, and identification information.

Intended applications include, but are not limited to, systems that automate the control of product packages during production, inventory, distribution and repair.

Label dimensions or marking areas, and the location of the information are not defined in this Standard. Before implementing this specification, suppliers and manufacturers should review and mutually agree on these details with their trading partners.

Product Code 2 Jan, 1995 **COMMITTEE: R-9**
\$45.00

EIA-706

Electronic Industries Association - Component Marking Standard

The purpose of this Standard is to establish a common structure for encoding data to be marked on electronic components to facilitate automation. This standard provides a means for components to be marked and read in a fixtured environment at any manufacturer's facility and be read by customers purchasing components for subsequent manufacturing operations.

Product Code 2 Jun, 1997 **COMMITTEE: R-9**
\$42.00

EIA-802

Product Marking Standard

This Standard defines minimum requirements for identifying products. This standard provides guidelines for product marking with machine-readable symbols. This standard covers both labels and direct marking of products. This standard includes testing procedures for label adhesive characteristics and mark durability.

Product Code 2 Sep, 2000 **COMMITTEE: R-9**
\$79.00

BROADCAST

HOME AUDIO

EIA/IS-80

Audio Bandwidth and Distortion Recommendations for AM Broadcast Receivers

Specifies audio bandwidth and distortion recommendations for AM broadcast radio receivers. Applies to both AM monophonic and AM stereophonic receivers, as well as to receivers of single, multiple, or variable reception bandwidths.

Product Code 2 Mar, 1991 **COMMITTEE: NRC**
\$32.00

RADIO BROADCAST

EIA-549

NRSC AM Preemphasis/Deemphasis and Broadcast Audio Transmission Bandwidth Specifications (ANSI/EIA-549-88)

Describes specifications for the preemphasis of AM broadcasts, the preemphasis of AM receivers, and the audio bandwidth of AM stations prior to modulation. EIA-549 specifies the audio input to the AM broadcast transmitter (10 kHz audio, 75 ms maximum preemphasis) and deemphasis in the receiver. It applies to AM monophonic and AM stereo L + R transmissions and to dual bandwidth and single bandwidth AM receivers.

Product Code 2 Jul, 1988 **COMMITTEE: NRSC/NAB**
\$30.00

CAMCORDERS

CEB3

Recommended Practice for Camcorder Specifications

The purpose of this recommended practice is to include essential information for the camcorder user and to standardize the format for the presentation of the information. Specification information should be included in product's Owner's Manuals, User's Guides or Instruction Manuals that are packed in with the product when it is sold. Specification information may also be included in product brochures and other advertising literature.

Product Code 2 Feb, 1998 **COMMITTEE: R-4.2**
\$36.00

BATTERIES

EIA-100.1

Standard for Replacement Ni-CD Portable Consumer Camcorder Battery; replaces EIA/IS-100.1

This standard specifies performance criteria for Sealed Rechargeable Nickel Cadmium Multicell batteries for replacement use in customer portable camcorders, to meet EIA standards.

Product Code 2 Sep, 1998 **COMMITTEE: R-4.2**
\$38.00

EIA-100.2

Standard for Replacement Sealed Lead Portable Consumer Camcorder Battery

This standard specifies performance criteria for Sealed Rechargeable Lead Acid multicell batteries for replacement use in consumer portable camcorders, designed for use with lead-acid batteries, to meet EIA standards

Product Code 2 Sep, 1998 **COMMITTEE: R-4.2**
\$38.00

CAMCORDERS (cont.)

LOWLIGHT MEASUREMENT

EIA-639

Consumer Camcorder or Video Camera Low Light Performance (ANSI/EIA-639-96)

Specifies the recommended method and test conditions to determine the low light sensitivity of consumer camcorders operating on the North American 525 line, 60 Hz NTSC color video standard. This standard applies to camcorders designed with gamma correction for both luminance and chroma channels.

Product Code 2 Jul, 1996 COMMITTEE: R-4.2

\$43.00

HOME NETWORKS

CEBUS

ANSI/EIA-600.10

Introduction to the CEBus Standard

The EIA-600 Specification covers the overall topology of the EIA-600 network and the detailed topology for each individual medium used; the electrical and physical specifications for the media usable by EIA-600; the physical interface from a device to the medium and the signaling method specifications to be used on the medium; the protocol to be used for network access and the description of the control message format; a command language that allows all devices to communicate a common set of functions to be performed. Aspects of the overall EIA-600 network that are not addressed in this specification are operation and maintenance of the network. This standard establishes a minimal set of rules for compliance. It does not rule out extended services that may be provided, as long as the rules of this standard are adhered to within the system. It is, in fact, the intention of the standards to permit extended services (defined by users) to exist.

Product Code 2 Dec, 1999 COMMITTEE: R-7.2

\$42.00

ANSI/EIA-600.31

Power Line Physical Layer and Medium Specification (ANSI/EIA-600.31-97)

This document is the preliminary specification for the CEBus Power Line (PL) Physical Layer and Media portion of the Physical Layer and Media Specifications of EIA-600. Its purpose is to present the information necessary for the development of a PL physical network and devices to communicate and share information over the network. This is one of a series of documents covering the various media that comprise the CEBus standard.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2

\$55.00

ANSI/EIA-600.32

Twisted Pair Physical Layer & Medium Specification (ANSI/EIA-600.32-97)

This document is the specification for the CEBus Twisted Pair (TP) Physical Layer and Medium. Its purpose is to present all the information necessary for the development of a TP physical network and devices to communicate and share information over that network in an orderly manner. This is one of a series of documents covering the various media that comprise the CEBus standard.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2

\$71.00

ANSI/EIA-600.33

Coax Cable Physical Layer & Medium Specification (ANSI/EIA-600.33-97)

This document is the preliminary specification for the CEBus Coax (CX) Physical Layer and Medium. Its purpose is to present all the information necessary for the development of a CX physical network and devices to communicate and share information over that network in an orderly manner. This is one of a series of documents covering the various media that comprise the CEBus standard.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2

\$71.00

ANSI/EIA-600.34

IR Physical Layer & Medium Specification (ANSI/EIA-600.34-97)

This document is a preliminary specification for the CEBus Infrared (IR) Physical Layer and Medium portion of the Physical Layer and Medium specifications of EIA-600. Its purpose is to present all the information necessary for the development of a IR physical network and devices to communicate and share information over that network to and from IR and other CEBus media in an orderly manner. This is one of a series of documents covering the various media that comprise the CEBus standard.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2

\$45.00

ANSI/EIA-600.35

RF Physical Layer & Medium Specification (ANSI/EIA-600.35-97)

This document is the preliminary specification for the CEBus Radio Frequency (RF) Physical Layer and Medium portion of the Physical Layer and Medium specifications of EIA-600. Its purpose is to present all of the information necessary for the development of a RF physical layer for the CEBus device. This is one of a series of documents covering various media that comprise the CEBus standard.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2

\$46.00

ANSI/EIA-600.37

Symbol-Encoding Sublayer

This document describes the portion of the Node Physical Layer that interfaces to the Medium Access Control (MAC) Sublayer and to Layer System Management (LSM). This sublayer is called the Symbol Encoding (SE) Sublayer.

Product Code 2 Nov, 1997 COMMITTEE: R-7.2

\$55.00

HOME NETWORKS, CEBUS (cont.)

ANSI/EIA-600.38

Power Line/Radio Frequency Symbol Encoding Sublayer

This document describes the portion of the Power Line or RF Physical Layer that interfaces to the Medium Access Control (MAC) Sublayer and to Layer System Management (LSM). This sublayer is called the Power Line/RF Symbol Encoding (PL/RF SE) Sublayer.

Product Code 2 Nov, 1997 **COMMITTEE: R-7.2**
\$63.00

ANSI/EIA-600.41

Description of the Data Link Layer (ANSI/EIA-600.41-97)

This document provides a prose description of the Data Link Layer Design for the CEBus Network. The intent of this document is to be descriptive, rather than provide a formal specification, and contains a discussion of the Data Link Layer interfaces to the Network Layer and Physical Layer, as well as a functional description of the Data Link Layer.

Product Code 2 Feb, 1998 **COMMITTEE: R-7.2**
\$82.00

ANSI/EIA-600.42

Node Medium Access Control Sublayer (ANSI/EIA-600.42-97)

This part of the CEBus standard is a technical specification of the services and protocol for the Node Medium Access Control Sublayer.

Product Code 2 Feb, 1998 **COMMITTEE: R-7.2**
\$111.00

ANSI/EIA-600.43

Node Logical Link Control Sublayer (ANSI/EIA-600.43-97)

This part of the CEBus standard is a technical specification of the services and protocol for the Node Logical Link Control Sublayer.

Product Code 2 Feb, 1998 **COMMITTEE: R-7.2**
\$50.00

ANSI/EIA-600.45

Node Network Layer Specification

This document is the CEBus Node Network Layer part of EIA-600.

Product Code 2 Dec, 1999 **COMMITTEE: R-7.2**
\$124.00

ANSI/EIA-600.46

Node Application Layer Specification

This document is the CEBus Node Network Layer part of EIA-600.

Product Code 2 Dec, 1999 **COMMITTEE: R-7.2**
\$124.00

ANSI/EIA-600.81

Common Application Language (CAL) Specification (ANSI/EIA-600.81-97)

This document describes the basic framework of CAL. It is intended as an introduction to CAL operation and syntax that stresses the object-oriented aspects of CAL. It is believed that the object-oriented methodology offers the best means of understanding the complex interaction between devices, controls, and controllers present in the CEBus environment.

Product Code 2 Feb, 1998 **COMMITTEE: R-7.2**
\$152.00

ANSI/EIA-600.82

CAL Context Description (ANSI/EIA-600.82-97)

This document describes the contexts, or main subsystems within a device, supported by the Common Application Language (CAL).

Product Code 2 Feb, 1998 **COMMITTEE: R-7.2**
\$46.00

EIA-600 CEBus SET

EIA Home Automation System (CEBus)

Provides the necessary specifications for the Consumer Electronic Bus (CEBus), a local communications and control network designed specifically for the home. The CEBus network provides a standardized communication facility for exchange of control information as data among devices and services in the home. The major motivations for its development were: (a) to develop a universal low cost method for devices in the home to communicate regardless of manufacturer, (b) to allow the introduction of new products and services to the home at minimal cost and confusion to consumers, (c) to meet the majority of anticipated home control requirements with a single multi-media network standard, and (d) to minimize the redundancy of control and operation methods among devices and equipment in the home. CEBus is intended to handle existing and anticipated control communication requirements at minimum practical costs consistent with a broad spectrum of residential applications. It is intended for such functions as remote control, status indication, remote instrumentation, energy management, security systems, and entertainment device coordination. These situations require economical connection to a shared local communication network carrying relatively short digital messages. A major objective of this specification is compatibility. It is intended that every implementation of CEBus be able to co-exist with every other implementation; that every device that meets this specification can communicate with all other CEBus devices; and the language used for control portions will be understood by all devices. This version includes portions of IS-60 that have not been revised as well as new ANSI approved updates.

Product Code 2 Oct, 1992 **COMMITTEE: R-7.2**
\$820.00

ANSI/EIA-633.10

Introduction to EIA-600 Conformance Specification

This standard is concerned with conformance of an implementation to the associated protocol specifications contained in EIA-600. A dual audience is expected for this standard. The first is laboratories that may be interested in acting as conformance testing agencies. Such agencies are tasked with converting these requirements into a hardware/software test system. The second audience is the set of designers of EIA-600 compatible products. Any designer of compatible products should understand the importance of the tests described in this standard, as they relate to implementing EIA-600. The second group should read this standard while considering whether its hardware and/or software implementation is likely to pass the stated tests.

Product Code 2 Dec, 1999 **COMMITTEE: R-7.2**
\$40.00

HOME NETWORKS, CEBUS (cont.)

ANSI/EIA-633.31

Power Line Physical Layer Conformance Specification

This portion of the conformance standard specifies tests to determine conformance of a Node's Power Line (PL) Physical Layer to IS-60. Part one of this standard provides an overview of the conformance philosophy. The reader is urged to review that material before attempting to use the details provided in this part.

Product Code 2 Sep, 1999 COMMITTEE: R-7.2
\$40.00

ANSI/EIA-633.32

Twisted Pair Physical Layer Conformance (ANSI/EIA-633.32-97)

This standard specifies tests to determine conformance of a device's Twisted Pair Physical Layer to EIA-600.

Product Code 2 Oct, 1997 COMMITTEE: R-7.2
\$44.00

ANSI/EIA-633.34

Infrared Physical Layer Conformance (ANSI/EIA-633.34-97)

This standard specifies tests to determine conformance of a Node's IR Physical Layer to EIA-600.

Product Code 2 Oct, 1997 COMMITTEE: R-7.2
\$39.00

ANSI/EIA-633.37

Symbol Encoding Sublayer Physical Layer Conformance (ANSI/EIA-633.37-97)

This standard specifies tests to determine conformance of a Node's Symbol Encoding Sublayer to EIA-600.

Product Code 2 Sep, 1997 COMMITTEE: R-7.2
\$36.00

ANSI/EIA-633.38

PL and RF Symbol Encoding Physical Layer Conformance (ANSI/EIA-633.38-97)

This standard specifies tests to determine conformance of a Node's Power Line or RF Symbol Encoding Sublayer to EIA-600.

Product Code 2 Sep, 1997 COMMITTEE: R-7.2
\$36.00

ANSI/EIA-633.46

Node Application Layer Conformance Specification

This portion of the conformance standard specifies tests to determine conformance of a Node's Application Layer to EIA-600.

Product Code 2 Dec, 1999 COMMITTEE: R-7.2
\$59.00

ANSI/EIA-633.81

CAL Conformance Specification

This portion of the conformance standard specifies tests to determine conformance of a Node's CAL to EIA-600.81. Part one of this standard provides an overview of the conformance philosophy. The reader is urged to review that material before attempting to use the details provided in this part.

Product Code 2 Sep, 1999 COMMITTEE: R-7.2
\$53.00

ANSI/EIA-721.1

Generic Common Application Language (Generic CAL) Specification

This document describes the basic framework of Generic CAL. It is intended as an introduction to Generic CAL operation and syntax that stresses the object-oriented aspects of Generic CAL. It is believed that the object-oriented methodology offers the best means of understanding the complex interaction between devices, controls, and controllers present in a Generic Network environment.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2
\$152.00

ANSI/EIA-721.2

Generic CAL Context Description

This document describes the contexts, or main subsystems within a device, supported by the Generic Common Application Language (Generic CAL).

Product Code 2 Feb, 1998 COMMITTEE: R-7.2
\$46.00

ANSI/EIA-721.3

Node Application Layer Specification

This Application Layer consists of four main elements. The application Process is the interface to the Application Layer. Services are provided by the Generic Common Application Language (Generic CAL) Element to the User Element of the Application Process. Generic CAL is the language framework through which Resource Allocation and Control functions are executed. Services are provided by the Message Transfer Element to the Generic CAL Element. The Message Transfer Element interfaces to the lower layers of the Generic Network either directly or through the Association Control Element. The lower layers are representative of some home automation networks. Additional OSI layers may be included. An adaptation layer may be required between the Generic CAL Application Layer and the Generic Network lower layers.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2
\$129.00

ANSI/EIA-721.4

Generic Common Application Language Quality of Service

This specification for Generic CAL consists of an Application Layer containing a command language and a Message Transfer Service Element. The specifications of the lower OSI layers are not within the scope of this standard. However, the services provided by the lower layers affect the performance and composition of messages issued from the Application Layer. These lower layer service options are collectively called the Quality-of-Service (QOS) available from the communications protocol. This portion of EIA-721 standard describes the lower layer QOS options that may impact the Application Layer. Recommended capabilities are specified. Also, a mechanism to convey these options to the Generic CAL Application Layer using Layer System Management functions is presented.

Product Code 2 Feb, 1998 COMMITTEE: R-7.2
\$46.00

ANSI/EIA-776.1

CEBus-EIB Router Communications Protocol-Description of the CEBus-EIB Router

This document describes the operation of a CEBus-EIB Router. This document is not intended to define how a router should operate, but to provide an overview of the operation and the coordination of various router elements.

Product Code 2 Feb, 1999 COMMITTEE: R-7.2
\$44.00

HOME NETWORKS, CEBUS (cont.)

ANSI/EIA-776.2

CEBus-EIB Router Communications Protocol - CEBus-EIB Router Medium Access Control Sublayer

The CEBus-EIB Router Medium Control (MAC) Sublayer is almost identical to the CEBus or EIB Node MAC Sublayer corresponding to the "CEBus Side" or the Router. The differences are in the way the Router does address matching on a received packet and on the information exchanged in some of the service primitives. Rather than copy the Node MAC specification here and make minor changes, the Router MAC is specified by exception to the Node MAC for both the CEBus and EIB Specifications.

Product Code 2 Feb, 1999 **COMMITTEE: R-7.2**
\$42.00

ANSI/EIA-776.3

CEBus-EIB Router Communications Protocol - CEBus-EIB Router Logical Link Control Sublayer

This section specifies the CEBus-EIB Router Logical Link Control Sublayer interfaces to the Router Network Layer and to the Layer System Management. The interfaces are described in terms of service primitives which are abstract interfaces across a layer boundary. A service primitive represents an exchange of information into or out of a layer. Although service primitives are defined using a format similar to that of programming language procedure calls, no implementation technique is implied.

Product Code 2 Feb, 1999 **COMMITTEE: R-7.2**
\$39.00

ANSI/EIA-776.4

CEBus-EIB Router Communications Protocol - CEBus-EIB Router Network Layer

The CEBus-EIB Router Network Layer is conceptually divided into several elements, each performing distinct well-defined services. Each element may be thought of as an independent process that communicates with the other elements and protocol layers through specified interfaces.

Product Code 2 Feb, 1999 **COMMITTEE: R-7.2**
\$79.00

ANSI/EIA-776.5

CEBus-EIB Router Communications Protocol - The EIB Communications Protocol

EIB is a control system for related applications in homes and buildings. The EIB system offers standardized basic and system components, e.g., Bus Coupling Units (BCU), Power Supply Units (PSU), Bus Interface Modules (BIM), Routers and RS-232 data interfaces. EIB offers the capability of constructing devices in a modular form using system devices like BCU or BIM that support communications-specific functions. A standardized interface called Physical External Interface (PEI) reduces the expense of developing EIB devices and allows them to be exchanged.

Product Code 2 Feb, 1999 **COMMITTEE: R-7.2**
\$146.00

EIA/CEA-844

XML Encoding of Generic Common Application Language

This standard specifies the encoding of Generic Common Application Language (CAL) into XML. It is based on ANSI/EIA-721 and EIA-851.

Product Code 2 Mar, 2000 **COMMITTEE: R-7.2**
\$53.00

EIA-709 SERIES

ANSI/EIA-709.1-A

Control Network Protocol Specification

This specification applies to a communication protocol for networked control systems. The protocol provides peer-to-peer communication for networked control and is suitable for implementing both peer-to-peer and master-slave control strategies. This specification describes services in layers 2-7. In the layer 2 (data link layer) specifications, it also describes the MAC sub-layer interface to the physical layer. The physical layer provides a choice of transmission media. The Interface described in this specification supports multiple transmission media at the physical layer. In the layer 7 specification, it includes a description of the types of messages used for applications to exchange application network management data.

Product Code 2 Apr, 1999 **COMMITTEE: R-7.1**
\$274.00

ANSI/EIA-709.2-A

Control Network Power Line (PL) Channel Specification

This document specifies the Control Network Power Line (PL) Channel and serves as a companion document to the EIA-709.1 Control Network Protocol Specification [1]. Its purpose is to present the information necessary for the development of a PL physical network and nodes to communicate the share information over the network. This is one of a series of documents covering the various media that comprise the EIA-709 Standard.

Product Code 2 Mar, 1998 **COMMITTEE: R-7.1**
\$53.00

ANSI/EIA-709.3

Free-Topology Twisted-Pair Channel Specification

This document specifies the EIA-709.3 free-topology twisted-pair channel and serves as a companion document to the EIA-709.1 Control Network Protocol Specification [1]. The channel supports communication at 78.125 kbps between multiple nodes, each of which consists of a transceiver, a protocol processor, and application processor, a power supply, and application electronics.

Product Code 2 Mar, 1998 **COMMITTEE: R-7.1**
\$43.00

HOME NETWORKS, EIA-709 SERIES (cont.)

ANSI/EIA-709.4

Fiber-Optic Channel Specification

In conjunction with ANSI/EIA-709.1-A Control Network Protocol Specification, EIA-709.4 defines a complete 7-layer protocol stack for communications on an EIA-709.4 single-fiber (half-duplex) fiber-optic channel. EIA-709.4 specifies the physical layer (OSI Layer 1) requirements for the EIA -709.4 fiber-optic channel which encompasses the interface to the Media Access Control (MAC) layer and the interface to the medium. The single-fiber channel implemented as specified in EIA-709.4 allows two nodes to communicate bidirectionally across a single piece of fiber cable.

Product Code 2 Nov, 1999 **COMMITTEE: R-7.1**
\$42.00

VHN

EIA/CEA-851

VHN Home Network

The R-7.4 VHN Home Network Standard defines a flexible and open network architecture and communications protocol specification for digital devices in the home.

Product Code 2 Sep, 2000 **COMMITTEE: R-7.4**
\$184.00

LOUDSPEAKERS

EIA-299-A

Loudspeakers, Dynamic, Magnetic Structures and Impedance

Specifies nominal dimensions and weights for nine Alnico 5 magnets.

Product Code 2 Feb, 1975 **COMMITTEE: R-3**
\$30.00

EIA-636

Recommended Loudspeaker Safety Practices (ANSI/EIA-636-96)

Provides guidance, including specifications and tests, for determining potential flammability, electric shock and mechanical safety hazards associated with loudspeaker systems and assemblies. Also provides guidance on product markings in the areas of quality control, customer service, product traceability and proper product usage. This document addresses specific safety issues only, and should be used in conjunction with existing manufacturers' specifications and tests or as the basis of a new safety and testing program. Supersedes IS-33.

Product Code 2 Dec, 1996 **COMMITTEE: R-1**
\$67.00

DIMENSIONS

EIA-278-B

Mounting Dimensions for Loudspeakers

Specifies the equipment and techniques for measuring stiffness, as indicated by the deflection distance when the spider is loaded at its center by a specified mass.

Product Code 2 Nov, 1976 **COMMITTEE: R-3**
\$30.00

SPIDERS

EIA-438

Loudspeaker Spiders, Test for Measuring Stiffness

Specifies the test method, equipment, and technique for measuring loudspeaker stiffness, as indicated by the deflection distance when the spider is loaded at its center by a specified mass.

Product Code 2 Dec, 1976 **COMMITTEE: R-3**
\$30.00

TESTING

EIA-276-A

Acceptance Testing of Dynamic Loudspeakers

Specifies the acceptance testing of all types of dynamic loudspeakers (full range, woofers, horns, with or without baffle).

Product Code 2 Apr, 1980 **COMMITTEE: R-3**
\$30.00

EIA-426-B

Loudspeakers, Optimum Amplifier Power (ANSI/EIA-426-B-98)

This standard recommends the maximum power rating for an amplifier to be connected to the speaker. This standard defines acceptable performance limits in the categories of power compression, distortion, and accelerated life testing. No test disc is available.

Product Code 2 Jul, 1998 **COMMITTEE: R-3**
\$43.00

MOBILE

MOBILE AUDIO

EIA-517

Car Audio Standard (ANSI/EIA-517-86)

Establishes a common standardized format for advertising amplifier power output and other important performance specifications of car stereo equipment based on EIA-490 "Standard Test Methods of Measurement for Audio Amplifiers", IEEE 185-1975 "Standard Test Methods of Testing Frequency Modulation Broadcast Receivers", and EIA-518 "Tape Recorder Measurement Standard".

Product Code 2 May, 1986 **COMMITTEE: R-3**
\$30.00

RADIO

EIA-794

Data Radio Channel (DARC) System

This standard specifies the parameters of a radio broadcasting system designed for delivery of data services for mobile, portable and fixed receivers in the FM band. The system is referred to as the Data Radio Channel (DARC) System. This standard defines the nature and content of the transmitted DARC signal. It also describes the organization of the multiplex for the DARC standard.

Product Code 2 Jun, 1999 **COMMITTEE: R-6**
\$66.00

MOBILE, RADIO (cont.)

EIA-795

Subcarrier Traffic Information Channel (STIC) System

The Subcarrier Traffic Channel (STIC) system is intended for one way transmission of relatively high-speed data using subcarriers on broadcast FM signals to mobile and fixed users. It is designed to be highly flexible, allowing for trade-offs among payload data rate, robustness, battery savings, and transmission delay. This standard defines the STIC system. It focuses on the over-the-air protocol in the lower layers of the protocol stack. Consequently, this standard generally provides information required for the signal processing at the transmit end of the system.

Product Code 2 Aug, 1999 **COMMITTEE: R-6**
\$87.00

SECURITY SOUNDING DEVICES

EIA/CEA-827

Sound Level Measurement--Vehicle Security System Sounding Devices

This standard defines the method for measuring the noise level of a vehicle security-sounding device. This standard does not define or limit device under test (DUT) frequencies, sounds or tones. However, this standard limits the frequencies that the noise level measurements may measure. The list of sounding devices that may be measured under this standard includes electronic sirens, mechanical sirens, and loudspeakers, among others.

Product Code 2 Apr, 2000 **COMMITTEE: R-6.1**
\$39.00

WIRING

EIA-803

Mobile Electronics Wiring Designations for Audio and Vehicle Security

This standard defines the terms, abbreviations, and definitions used in the sales and installation of vehicle aftermarket audio and security equipment. The standard adds continuity to mobile electronics installation information, enables easier data collection, and ensures consistency of information to installers.

Product Code 2 Nov, 1999 **COMMITTEE: R-6**
\$40.00

PHONOGRAPHS

DISCS

EIA-211-D

Processed Analog Audio Disc Records and Reproducing Equipment

This Standard reflects changes which occurred in the disc recording industry during the last decade and gives dimensional and other characteristics necessary to secure interchangeability. The Standard will be of interest to all cutting establishments, disc manufacturing and processing plants, and the manufacturers of disc playback equipment.

Product Code 2 Feb, 1981 **COMMITTEE: R-4.2**
\$30.00

PICK-UPS

EIA-461

Phonograph Pick-Ups with 1/2-Inch Mounting

This Standard contains a list of test conditions for various types of pick-ups, required and optional data for specifying performance of the cartridge and recommended dimensions for the essential part of the pick-ups. An attempt is being made to improve interchangeability of pick-ups as far as mounting and electrical terminations are concerned, without affecting the performance of the tone arm and of the entire disc play-deck systems.

Product Code 2 Jan, 1981 **COMMITTEE: R-3**
\$30.00

STYLUS

EIA-238-B

Standards for Stylus Tips Used for Disc Phonograph Record Reproducing (ANSI/EIA-238-B-75)

The number of different shaped stylus tips available for present and projected uses requires a variety of specifications dependent upon the shapes and intended uses of the stylus tips. This Standard defines measurement parameters and applies this information to the various stylus tip configurations.

Product Code 2 Jan, 1981 **COMMITTEE: R-3**
\$30.00

TELETEXT

EIA-516

Joint EIA/IVCC Recommended Practice for Teletext: North American Basic Teletext Specification (NABTS)

Specifies the transmission technique, coding language, and user interface for one-way broadcast teletext-service applications in North America. Replaces IS 14.

Product Code 2 May, 1988 **COMMITTEE: R-4.3**
\$107.00

TELEVISION

AV BUS

EIA-693

Audio/Video Bus (AVBus) Physical Layer and Media Specification (ANSI/EIA-693-97)

This standard contains the performance specifications necessary to implement an Audio/Video (AV) Bus to carry baseband audio, video and control signals for limited distances between consumer audio and video equipment in the home. The purpose of this standard is to present all the information necessary for the development of an AV physical network and devices to communicate and share information over the network.

Product Code 2 Feb, 1998 **COMMITTEE: R-4.6**
\$55.00

TELEVISION (cont.)

CABLE

EIA-23

RF Interface Specification for Television Receiving and Cable Television Systems

This specification is intended to apply to all cable systems and to all receiving devices which may be directly connected to a cable system residential outlet, including, but not limited to, television sets, video cassette recorders, and converters (whether furnished by cable operators or independently acquired by subscribers).

Product Code 2 Oct, 1998 **COMMITTEE: JEC**
\$63.00

EIA/IS-105.1

Decoder Interface Standard

Specifies an interconnection method for attaching a cable decoder to a piece of consumer electronics equipment such as a TV or a VCR. Two ports - an audio/video/control port and an IF port - are covered under this interim standard. This specifies the physical characteristics of the interface between the decoder and the receiver.

Product Code 2 Jul, 1997 **COMMITTEE: DI**
\$59.00

EIA-105.2

Decoder Interface Control Standard

The IS-105/EIA-105 specification is designed to allow consumer electronic devices such as television, VCRs, and other receiving devices to be connected to various external devices via the Decoder Interface Multi-pin connector.

Product Code 2 Apr, 1998 **COMMITTEE: DI**
\$66.00

EIA/CEA-818-A

Cable Compatibility Requirements

This standard defines the minimum requirements that shall be met by digital cable TV systems and digital TV receivers such that the receivers may be connected directly to the RF output of the cable system to provide selected baseline services.

Product Code 2 Dec, 2000 **COMMITTEE: R-8**
\$48.00

EIA/CEA-819

Cable Compatibility Requirements for Two-Way Digital Cable TV Systems

This standard defines the minimum requirements that shall be met by two-way digital cable TV systems and two-way digital TV receivers such that the receivers may be connected directly to the RF output and input of the two-way cable system to provide the specified services.

Product Code 2 Dec, 2000 **COMMITTEE: R-8**
\$39.00

CLOSED CAPTIONING

EIA/CEA CEB-8

Consideration of EIA-608-B Data Within the DTV Closed Captioning (EIA-708-B) Construct

EIA/CEA CEB-8 provides guidance on the use and processing of the EIA/CEA-608-B data stream embedded within the ATSC MPEG-2 video elementary transport stream. EIA/CEA CEB-8 augments EIA-708-B (addressing DTV Closed Captioning) Sections 4.3 and 9.23.

Product Code 2 Oct, 2000 **COMMITTEE: R-4.3**
\$38.00

EIA-708-B

Digital Television (DTV) Closed Captioning

This document is intended as a definition of DTV Closed Captioning (DTVCC) and provides specifications and/or guidelines for caption service providers, DTVCC decoder and encoder manufacturers, DTV receiver manufacturers, and DTV signal processing equipment manufacturers. This specification includes: a) A description of the transport method of DTVCC data in the DTV signal. b) A description of DTVCC specific data packets and structures. c) A specification of how DTVCC information is to be processed. d) A list of minimum implementation recommendations for DTVCC receiver manufacturers. e) A set of recommended practices for DTV encoder and decoder manufacturers.

Product Code 2 Dec, 1999 **COMMITTEE: R-4.3**
\$106.00

COLOR BAR SIGNAL

EIA-189-A

Encoded Color Bar Signal

The EIA Standard Color Bar Signal is intended for use as a test signal for the following principal reasons: (a) Adjustment of color monitors; (b) Adjustment of color encoders; (c) Rapid checks of color television transmission systems.

Product Code 2 Jul, 1976 **COMMITTEE: BTS**
\$30.00

CONTENT ADVISORY

EIA-744-A

Transport of Content Advisory Information Using Extended Data Service (XDS)

The XDS Content Advisory (program rating) packet transports essential content advisory information viewers need to block selected programming. EIA/CEA-608-B incorporates this information. EIA-744-A is withdrawn. See EIA/CEA-608-B.

Product Code 2 Dec, 1998 **COMMITTEE: R-4.3**
\$43.00

TELEVISION, CONTENT ADVISORY (cont.)

EIA-766

U.S. Region Rating Table (RRT) and Content Advisory Descriptor for Transport of Content Advisory Information using ATSC A/65 Program and System Information Protocol (PSIP)

This standard augments ATSC Standard A/65 and SCTE DVS-097 Rev. 7, both titled Program and System Information Protocol for Terrestrial Broadcast and Cable (PSIP). With the above two standards, this standard designates the RRT which provides the receiver with the definition of the rating system and the Content Advisory Descriptor which provides the receiver with the specific program rating for each program. Specifically, this standard specifies the exact syntax to be used to define the U.S. Rating Region Table (RRT) in accordance with Section 6.4 of A/65 as well as the exact syntax to be used in the Content Advisory Descriptors that convey the rating information for each program in accordance with Section 6.7.4 of A/65. Thus DTV receivers may block unwanted programs as determined by the user.

Product Code 2 Sep, 1998 **COMMITTEE: R-4.3**
\$40.00

CEB1-A

Recommended Practice for Content Advisories

This bulletin provided guidance to receiver manufacturers and designers concerning expected receiver response to content advisory information transported in the EIA-744-A U.S. or Canadian content advisory (program rating) packet. EIA/CEA-608-B incorporates this information. EIA/CEB-1-A is withdrawn. See EIA/CEA-608-B.

Product Code 2 Dec, 1998 **COMMITTEE: R-4.3**
\$43.00

DTV INTERFACE - COMPONENT VIDEO

EIA-770.1-A

Analog 525 Line Component Video Interface - Three Channels

This standard defines the physical characteristics of an interface and the parameters of the signals carried across the interface, using three parallel channels for the interconnection of equipment operating with analog component video signals. This standard includes specifications for two scanning structures: 1H - having 525 lines, 59.94 fields/second, 2:1 interlaced, and a horizontal scanning rate of 15.734 kHz; and 2H - for doubled scanned interfaces having 525 lines, 59.94 frames/second, progressively scanned, and having a horizontal scanning rate of 31.47 kHz. Both interfaces shall be capable of either 4:3 or 16:9 aspect ratios.

Product Code 2 Jan, 2000 **COMMITTEE: R-4.8**
\$43.00

EIA-770.2-A

Standard Definition TV Analog Component Video Interface

This standard defines the physical characteristics of an interface and the parameters of the signals carried across that interface, using three parallel channels for the interconnection of equipment operating with analog component video signals. The standard includes specifications for: (1) 480i video format defined by 480 active lines, 525 total lines, 2:1 interlaced at 59.94 or 60 fields/second; and, (2) 480p video format defined by 480 active lines, 525 total lines, progressively scanned at 59.94 or 60 frames/second. Both video formats shall be capable of either 4:3 or 16:9 aspect ratios.

Product Code 2 Dec, 1999 **COMMITTEE: R-4.8**
\$43.00

EIA-770.3-A

High Definition TV Analog Component Video Interface

This standard defines two raster-scanning systems for the representation of stationary or moving two-dimensional images sampled temporally at a constant frame rate. The first image format specified is 1920 x 1080 samples (pixels) inside a total raster of 1125 lines. The second image format specified is 1280 x 720 samples (pixels) inside a total raster of 750 lines. Both image formats shall have an aspect ratio of 16:9.

Product Code 2 Mar, 2000 **COMMITTEE: R-4.8**
\$48.00

EIA/CEA-805

Data Services on the Component Video Interfaces

This standard specifies how data services are carried on component video interfaces (CVI), as described in EIA-770.1-A (for 2H 480p signals only), EIA-770.2-A (for 2H 480p signals only) and EIA-770.3-A. This standard applies to all CE devices carrying data services on the CVI vertical blanking interval (VBI). This standard does not apply to signals which originate in 1H 480i, as defined in EIA-770.1-A and EIA-770.2-A. The first data service defined is Copy Generation Management System (CGMS) information, including signal format and data structure when carried by the VBI of standard definition progressive and high definition YPbPr type component video signals. It is also intended to be usable when the YPbPr signal is converted into other component video interfaces including RGB and VGA.

Product Code 2 Oct, 2000 **COMMITTEE: R-4.8**
\$43.00

DTV INTERFACE - IEEE 1394

EIA/CEA-775.1

Web Enhanced DTV 1394 Interface Specification

This standard includes mechanisms to allow a source of MPEG service to utilize the MPEG decoding and display capabilities in a DTV.

Product Code 2 Mar, 2000 **COMMITTEE: R-4.8**
\$79.00

TELEVISION, DTV INTERFACE - IEEE 1394 (cont.)

EIA/CEA-775.2

Service Selection Information for Digital Storage Media Interoperability

A digital storage device such as a D-VHS or hard disk digital recorder may be used by the DTV or by another source device such as a cable set-top box to record or time-shift digital television signals. This standard supports the use of such storage devices by defining Service Selection Information (SSI), methods for managing discontinuities that occur during recording and playback, and rules for management of partial transport streams.

Product Code 2 Jun, 2000 **COMMITTEE: R-4.8**
\$59.00

EIA-775-A

DTV 1394 Interface Specification

This standard defines a specification for a baseband digital interface to a DTV using the IEEE-1394 bus and provides a level of functionality that is similar to the analog system. It is designed to enable interoperability between a DTV compliant with this standard and various types of consumer digital audio/video sources including digital set-top boxes (STBs) and analog/digital hard disk or videocassette recorders (VCRs).

Product Code 2 Dec, 1998 **COMMITTEE: R-4.8**
\$87.00

EIA-799

On-Screen Display Specification

This standard specifies syntax semantics for bitmapped graphics data typically used for on-screen display (OSD). The standard is applicable whenever it is necessary to specify a standard method for delivery of bitmapped graphics data. The pixel formats include optional alpha-blend and transparency attributes to support composition of graphics over analog or digitally decoded video within the display.

Product Code 2 Jul, 1999 **COMMITTEE: R-4.8**
\$44.00

EIA/CEA-849

Application Profiles for EIA-775A Compliant DTVs

This standard specifies profiles for various applications of the EIA-775A standard. The application areas covered here include digital streams compliant with ATSC terrestrial broadcast, direct-broadcast satellite (DBS), OpenCable™, and standard definition Digital Video (DV) camcorders.

Product Code 2 Aug, 2000 **COMMITTEE: R-4.8**
\$51.00

DTV INTERFACE - NRSS

EIA-679-B

National Renewable Security Standard (NRSS)

NRSS provides two physical designs. Part A defines a removable and renewable security element form factor that is an extension of the ISO-7816 standard. Part B defines a removable and renewable security element based on the PCMCIA (C Card) form factor. The common attributes allow either an NRSS-A or NRSS-B device to provide security for applications involving pay and subscription cable or satellite television services, telephone, and all forms of electronic commerce.

Product Code 2 Mar, 2000 **COMMITTEE: NRSS**
\$175.00

EIA-796

NRSS Copy Protection Systems

The copy protection systems that have been included in EIA-796 are itemized for the purpose of identification. The systems outlined in EIA-796 all support the copy protection frameworks described in EIA-679-B, Parts A and B.

Product Code 2 Dec, 1999 **COMMITTEE: NRSS**
\$38.00

DTV INTERFACE - RF REMODULATOR

EIA-761-A

DTV Remodulator Specification with Enhanced OSD Capability

This standard defines minimum specifications for a one-way data path utilizing an 8 VSB trellis or a 16 VSB remodulator in compliance with ATSC Standard A/53, Annex D. This standard also defines on-screen display (OSD) capabilities. This standard applies to any type of device used to connect to an ATSC compliant digital television receiver (DTV) receiver. Devices meeting this standard should interoperate with any ATSC compliant receiver that also supports "monitor mode." This standard addresses required RF output specifications, on-screen display (OSD) capabilities, and capability profiles for a DTV remodulator and recommendations concerning input to the remodulator. This standard does not address 8 VSB without OSD. For information concerning 8 VSB without OSD, see also EIA-762 and EIA-799.

Product Code 2 Jul, 1999 **COMMITTEE: R-4.8**
\$42.00

EIA-762

DTV Remodulator Specification

This standard defines a minimum specification for a one-way data path utilizing an 8-VSB trellis remodulator in compliance with ATSC A/53, Annex D. This standard applies to any type of device used to connect to an ATSC compliant digital television receiver (DTV) receiver. Devices meeting this standard should interoperate with any ATSC compliant receiver that also supports "monitor mode" (see EIA CEB-5.) This standard addresses both required RF output specifications for a DTV remodulator and recommendations concerning input to the remodulator.

Product Code 2 Aug, 1998 **COMMITTEE: R-4.8**
\$38.00

CEB5

Recommended Practice for DTV Receiver "Monitor" Mode Capability

CEB5 is intended to provide recommendations to digital television (DTV) designers/manufacturers concerning a "monitor" mode capability. See EIA-762 for minimum specifications for a DTV remodulator.

Product Code 2 Aug, 1998 **COMMITTEE: R-4.8**
\$36.00

TELEVISION (cont.)

EXTENDED DATA SERVICE (XDS)

EIA/CEA-608-B

Line 21 Data Services

Serves as a technical guide for those providing encoding equipment and/or decoding equipment to produce material with encoded data embedded in Line 21 of the vertical blanking interval of the NTSC video signal. It is also a usage guide for those who will produce material using such equipment. Revision incorporates content advisory.

Product Code 2 Sep, 1994 **COMMITTEE: R-4.3**
\$160.00

EIA-745

Transport of Cable Channel Mapping System Information Using Extended Data Service (XDS)

This standard defined three new Miscellaneous Class data packets within XDS that transport information necessary to permit viewers to select a desired channel based on its broadcast channel assignment. EIA/CEA-608-B incorporates this information. EIA-745 is withdrawn. See EIA/CEA-608-B.

Product Code 2 Oct, 1997 **COMMITTEE: R-4.3**
\$36.00

EIA-746-A

Transport of Internet Uniform Resource Locator (URL) Information Using Text-2 (T-2) Service

This document was a proposed amendment to EIA-608 to insert Internet Uniform Resource Locators (URLs) within the line-21 data system using the Text-2 (T-2) service. EIA/CEA-608-B incorporates this information. EIA-746-A is withdrawn. See EIA/CEA-608-B.

Product Code 2 Sep, 1998 **COMMITTEE: R-4.3**
\$39.00

EIA-752

Transport of Transmission Signal Identifier (TSID) Using Extended Data Service (XDS)

This document was a proposed amendment to EIA-608 to include a unique 16-bit Transmission Signal Identifier in a new Extended Data Service (XDS) packet. EIA/CEA-608-B incorporates this information. EIA-752 is withdrawn. See EIA/CEA-608-B.

Product Code 2 Feb, 1998 **COMMITTEE: R-4.3**
\$36.00

EIA-806

Carriage of DTV PSIP Information Using the XDS Method

This standard addresses transmission of DTV PSIP data using the XDS data carriage method. EIA/CEA-608-B incorporates this information. EIA-806 is withdrawn. See EIA/CEA-608-B.

Product Code 2 Dec, 1999 **COMMITTEE: R-4.3**
\$40.00

EIA/IS-702

Copy Generation Management System (Analog)

This standard included packet description data relating to the Copy Generation Management System (Analog) (CGMS-A). EIA/CEA-608-B incorporates this information. EIA-702 is withdrawn. See EIA/CEA-608-B.

Product Code 2 Jul, 1997 **COMMITTEE: R-4.3**
\$32.00

CEB2

Recommended Practice for Expansion of Extended Data Service (XDS) to Include Cable Channel Mapping System Information.

This bulletin provided guidance to receiver designers and manufacturers concerning expected receiver response to channel allocation data packets. EIA/CEA-608-B incorporates this information. EIA-CEB-2 is withdrawn. See EIA/CEA-608-B.

Product Code 2 Oct, 1997 **COMMITTEE: R-4.3**
\$32.00

TVSB1

EIA Recommended Practice for Use of a Vertical Interval Reference (VIR) Signal

Specifies the use of the Vertical Interval Reference (VIR) signal. The VIR signal is a program-related reference signal inserted during the vertical blanking interval of a color television program. It is intended to reduce undesired variations in color throughout the television system by assisting television producers and operators in adjusting the various signal parameters so that different programs and program segments will have similar amplitude and phase characteristics whether viewed sequentially on the same channel or on different channels.

Product Code 2 Jul, 1972 **COMMITTEE: R-4.3**
\$30.00

TVSB3

A History of the Vertical Interval Color Reference Signal (VIR)

Illustrates the history of the vertical interval color reference signal.

Product Code 2 Mar, 1975 **COMMITTEE: R-4.3**
\$66.00

IMMUNITY

EIA-378

Measurement of Spurious Radiation from FM and TV Broadcast Receivers in the Frequency Range of 100 to 1000 MHz, Using the EIA Laurel Broadband Antenna

Describes potential sources of spurious radiation from frequency modulation and television broadcast receivers and establishes measurement methods whereby the strength of some radiations may be determined.

Product Code 2 Aug, 1970 **COMMITTEE: R-1**
\$30.00

EIA-544

Immunity of TV and VCR Tuners to Internally Generated Harmonic Interference from Signals in the Band 535 kHz to 30 MHz (ANSI/EIA-544-88)

This Standard establishes performance guidelines for rejection of interference by television receivers, video cassette recorders, and tuners. It details a measurement procedure which determines the level of interfering signal which will generate harmonics in the tuner, causing interference 40 dB below a desired signal at the intermediate frequency (IF) output of a tuner under test. This standard covers interference immunity to CB, amateur radio, and other transmissions.

Product Code 2 Feb, 1989 **COMMITTEE: R-1**
\$57.00

TELEVISION, IMMUNITY (cont.)

EIA/IS-16-A

Immunity of Television Receivers and Video Cassette Recorders (VCRs) to Direct Radiation from Radio Transmissions, 0.5 to 30 MHz

This Interim Standard establishes as a performance guideline for the immunity of TV receivers and VCR's to direct radiation from radio transmissions below 30 MHz. It provides the recommended procedure for measuring the immunity of TV receivers and VCR's over the frequency range of 0.5 to 30 MHz.

**Product Code 2 May, 1987 COMMITTEE: R-1
\$30.00**

EIA/IS-31

Recommended Design Guideline, Rejection of Educational Interference to Ch 6 Television Reception

Establishes the design guideline for a color television receiver or VCR in the play-through mode to provide rejection of educational (and non-commercial) FM interference to Ch. 6 television reception equal to or exceeding that of the FM median receiver. It defines the signal and operation of the TV product, and the evaluation criteria to be used in implementing the interference immunity guideline. It also establishes guidelines for signal levels at which TV products should coexist with other RF sources, without material performance degradation.

**Product Code 2 Aug, 1987 COMMITTEE: R-1
\$30.00**

STUDIO FACILITIES

EIA-170

Electrical Performance Standards Monochrome Television Studio Facilities

Establishes definitions, minimum standards, and methods of measurement for the electrical performance for monochrome television studio facilities. It is intended to apply only to locally generated signals; that is, signals generated in the studio itself or at a nearby point where control can be exercised over picture quality.

**Product Code 2 Nov, 1957 COMMITTEE: R-4.8
\$28.00**

IETNTS1

Industrial Electronic Tentative Standard No. 1 (IETNTS1), Color Television Studio Picture Line Amplifier Output Drawing

Specifies timing parameters within the horizontal blanking interval of a color television signal. This document is based on EIA-170.

**Product Code 2 Nov, 1977 COMMITTEE: BTS
\$41.00**

TELEVISION RECEIVERS

CPEB1

Standard Method of Measurement of Ionizing Radiation from Television Receivers for Factory Quality Assurance

Establishes a standard method of obtaining ionizing radiation characteristics from production television receivers.

**Product Code 2 Jun, 1969 COMMITTEE: R-1
\$30.00**

CPEB2

Definition of Normal Operating Conditions for Television Receivers

Specifies normal operating conditions of broadcast television receivers for the purpose of X-radiation measurements.

**Product Code 2 Jun, 1969 COMMITTEE: R-1
\$30.00**

CPEB3

Measurement Instrumentation for X-Radiation from Television Receivers

Specifies instrumentation for the measurement of X-radiation emission from television receivers.

**Product Code 2 Jun, 1969 COMMITTEE: R-1
\$30.00**

TVSB5

Multichannel TV Sound System BTSC System Recommended Practices

Specifies the transmission of multichannel television sound (MTS) in accordance with the BTSC system and the FCC rules governing its use. This document is intended for both manufacturers and broadcasters.

**Product Code 2 Jul, 1985 COMMITTEE: BTSC
\$152.00**

TRANSMISSION

EIA/TIA-250-C

Electrical Performance for Television Transmission Systems (ANSI/EIA/TIA-250-C-89)

This Standard specifies the minimal transmission performance characteristics, consistent with good engineering practice, of television transmission of 525-line NTSC color or monochrome video and associated audio signals suitable for television broadcasting or for similar application. These limits are used for the acceptance of new systems or restoration of existing systems after maintenance. It should be noted that transmission systems utilize analog, digital, or a mixture of analog and digital techniques. Definitions, standards, and methods of measurement are given for both the video and related audio signals being carried from a few hundred feet to thousands of miles, including satellite transmission.

**Product Code 2 Feb, 1990 COMMITTEE: TR-14.10
\$76.00**

TRANSMITTERS

EIA-462

Electrical Performance Standards for Television Broadcast Demodulators

This Standard includes aural and visual performance standards for various functions and operating modes which may or may not be offered by a particular demodulator manufacturer, or may be offered by a manufacturer not in one instrument, but in two or more separate instruments.

**Product Code 2 May, 1979 COMMITTEE: BTS
\$80.00**

VCR

CEB4

Recommended Practice for VCR Specifications

The purpose of this recommended practice is to: (1) include essential information for the VHS VCR user, and (2) standardize the format for the presentation of the information.

**Product Code 2 Aug, 1998 COMMITTEE: R-4.2
\$33.00**

TELEVISION (cont.)

TELEVISION RECEIVERS

WIRE

EIA-336

Color Coding for Chassis Wiring (ANSI/EIA-336-68) (R73) (R79)

The colors described in this Standard are as defined in EIA-359, "EIA Standard Colors for Color Identification and Coding."

Product Code 2 Dec, 1978 **COMMITTEE: R-4**

\$30.00

UNMAINTAINED ARCHIVAL PUBLICATIONS

EIA-157

Method for Determining Air Gap Flux Density and Energy

The purpose of this Standard is to establish a uniform procedure for determining flux density and energy in the air gap of loudspeakers based on standard method for determination of area volume of gap.

Product Code 2 Apr, 1964

\$30.00

EIA-160

Sound Systems

This Standard provides formulas for calculating power level, sound pressure level, speaker matching devices, speaker matching transformer distortion and power handling capacity, speaker matching frequency response, and transformer losses.

This standard was adopted and approved for DoD use in Sept. 18, 1981.

Product Code 2 Dec, 1951

\$30.00

EIA-243

Color Coding for Stereo Pick-Up Leads (ANSI/EIA-243-66) (R72) (R78)

This Standard provides color coding for pick-up leads.

Product Code 2 Feb, 1978 **COMMITTEE: R-3**

\$30.00

EIA-254-A

Precision Reel for Magnetic Tape (ANSI/EIA-254-A-68) (R75) (R87)

This Standard specifies the dimensions of precision reels designed for use with magnetic tape in specialized recording applications such as instrumentation.

Product Code 2 Jun, 1987

\$30.00

EIA-288

Audio Magnetic Playback Characteristic at 7-1/2 IPS

This Standard contains an electrical description of an audio reproducing system in terms of a frequency response curve with a definition of the shape of the curve with high and low frequencies.

Product Code 2 Nov, 1963

\$30.00

EIA-332-A

Dimensional Standard: Eight Track Endless Loop Cartridges (EIA Type III)

This Standard provides dimensional characteristics of endless loop tape cartridges in order to permit interchangeability of cartridges of the same type.

Product Code 2 May, 1978

\$30.00

EIA-338

Standard for Unrecorded Magnetic Tape for Reel-to-Reel Instrumentation Applications (ANSI/EIA-336-68)

The intent of this Standard is to standardize basic composition, winding method, and dimensions of magnetic tape used in interchange instrumentation applications.

Product Code 2 Dec, 1974

\$30.00

EIA-342

Recommended Test Method: Magnetic Tape Electrical Resistance Coating (ANSI/EIA-342-68) (R75)

This Standard provides a recommended method for measuring the electrical resistance of magnetic coatings of the types commonly employed on magnetic recording tape.

Product Code 2 Dec, 1974

\$30.00

EIA-346

Type A Hubs and Reels for Magnetic Tape (Requirements for Interchange)

This Standard specifies those dimensions of hubs and reels considered essential for their successful interchange between equipment designed for use with magnetic tape in either audio or specialized recording applications such as instrumentation.

Product Code 2 Dec, 1974

\$30.00

EIA-351

Type B Plastic Reel for Magnetic Tape (Requirements for Interchange)

This Standard identifies and defines those magnetic tape reel dimensions considered essential for the successful interchange of reels between equipment designed for those audio and other specialized recording applications utilizing tape of quarter-inch nominal width.

Product Code 2 Dec, 1974

\$30.00

UNMAINTAINED ARCHIVAL PUBLICATIONS (cont.)

EIA-352

One-Half-Inch (12.7 mm) Magnetic Tape Reel for Computer Use (Requirements for Interchange) (ANSI/EIA-352-68) (R75)

This Standard is intended to standardize those dimensions of reels considered essential for their successful interchange between equipment designed for use with half-inch wide magnetic tape in computer applications.

Product Code 2 Dec, 1974

\$30.00

EIA-355

Standard Dimensions for Unrecorded Magnetic Sound Recording Tape

This Standard is intended to standardize those dimensions, packaging conventions, and descriptions of unrecorded magnetic tape considered to be essential for the successful interchange of tape between equipment in general and for use for sound equipment recording applications.

Product Code 2 Dec, 1974

\$30.00

EIA-362

Recommended Test Method: Tensile Properties of Magnetic Tape (ANSI/EIA-362-70) (R75)

The methods in this Standard cover the determination of tensile yield force, tensile force at break, and tensile break elongation of magnetic tapes.

Product Code 2 Dec, 1974

\$30.00

EIA-387

Four-Channel Sound Magnetic Tape Records

This Standard covers the specifications for four-channel sound magnetic tape records with individual channels recorded on separate tracks on the tape.

Product Code 2 Feb, 1977

\$30.00

EIA-394

Recorded Tape Formats for 7, 14, and 21 Tracks on 1/2-Inch Magnetic Tape and 14, 28, and 42 Tracks on 1-Inch Magnetic Tape for Instrumentation Recording (ANSI/EIA-394-72) (R79) (R87)

This Standard specifies dimensions and tolerances for the location of 7, 14, and 21 tracks on 1/2 inch magnetic tape and 14, 28 and 42 tracks on one inch magnetic tape to permit interchange of recorded tapes among equipment of various manufacturers.

Product Code 2 Jun, 1987

\$30.00

EIA-399-A

Dimensional Standard Coplanar Magnetic Tape Cartridge Type CP-II (Compact Cassette)

This Standard covers the dimensional specifications considered essential for the successful interchange of cartridge called EIA Type CP-II between equipment designed for audio recording and reproducing applications.

Product Code 2 Jun, 1975

\$30.00

EIA-413

Recommended Test Method: Timing Error Measurements of Instrumentation Magnetic Tape Recorder/Reproducers (ANSI/EIA-413-73) (R79) (R87)

This Standard covers acceptable instrumentation and procedures for the measurement of Time Base Error, Composite Time Base Error, and Pulse-to-Pulse Jitter in instrumentation magnetic-recording equipment.

Product Code 2 Jun, 1987

\$30.00

EIA-432

Standard for Magnetic Tape Records: Endless-Loop Cartridges for Eight-Track Stereophonic Records at 3.75 in/s (9.53 cm/s)

This Standard covers the specifications for eight-track stereophonic commercially duplicated magnetic tape records at a tape speed of 3.75 in/s (9.53 cm/s) with tape having a width of 1/4 inch (6.3 mm) in an EIA Type II endless-loop cartridge.

Product Code 2 Apr, 1976

\$30.00

EIA-433

Standard for Magnetic Tape Records: Compact Cassette (EIA-399-A) with Four-Track Mono/Stereo Compatible Records at 1.875 in/s (4.76 cm/s)

This Standard covers the specification for four-track mono/stereo compatible commercially duplicated magnetic tape records at a tape speed of 1.875 in/s with tape having a nominal width of 0.15 inch in an EIA Type CP-11 coplanar cartridge (compact cassette).

Product Code 2 Apr, 1976

\$30.00

EIA-434

Standard for Magnetic Tape Records: Four-Track Open-Reel Stereophonic Records at 3.75 in/s and 7.5 in/s (9.5 cm/s and 19 cm/s)

This Standard covers the specifications for four-track stereophonic commercially duplicated magnetic tape records at tape speeds of 3.75 and 7.5 in/s (9.5 - 19 cm/s) with tape having a nominal width of 1/4 inches (6.3 mm).

Product Code 2 Apr, 1976

\$30.00

EIA-508

Electrical Performance Standards for Television Broadcast Transmitters (ANSI/EIA-508-87)

The intent of this Standard is to specify the transmitter performance characteristics consistent with good engineering practices for the broadcast of video signals. These characteristics represent initial acceptance limits as well as limits to which the transmitter can be restored. Pertinent parameters are defined and standards and methods of measurement have been established where practicable to do so.

Product Code 2 Aug, 1987 **COMMITTEE: TR-4**

\$107.00

UNMAINTAINED ARCHIVAL PUBLICATIONS (cont.)

EIA/IS-51

Emission Limitation for AM Broadcast Transmission

Specifies radio-frequency spectrum occupancy for AM broadcast stations for monophonic and stereo transmissions. The implementation of this standard will result in reduced AM interference, thus providing increased service for all AM stations and an increase in quality of service to present and future AM listeners.

Product Code 2 Sep, 1988

\$30.00

REC-109-CH

Intermediate Frequencies for Entertainment Receivers

In this Standard, the standard intermediate frequencies for the various types of receivers are given.

Product Code 2 Sep, 1955

\$30.00

REC-130

Test for Appearance and Durability of Finishes on Completely Finished Cabinets Made of Solid Wood and/or Veneer

In this Standard, test procedures and limits are given for various attributes.

Product Code 2 Jul, 1949

\$30.00

REC-133

Magnetic Recorder Combined with Home Radio Receivers

This Standard covers impedance and interconnection as well as sensitivity.

Product Code 2 Jul, 1949

\$30.00

SE-101-A

Amplifiers for Sound Equipment

This Standard defines the various types, specifies minimum standards for terminal impedances, and gives methods of measurement for amplifier characteristics.

Product Code 2 Jul, 1949

\$30.00

SE-103

Speakers for Sound Equipment

This Standard provides definitions and methods of measurement for various electrical characteristics of speakers for sound equipment such as impedance, efficiency, pressure-frequency response, directivity index, and speaker efficiency.

This standard was adopted and approved for DoD use in Sept. 24, 1981.

Product Code 2 Apr, 1949

\$30.00

SE-104

Engineering Specifications for Amplifiers for Sound Equipment

This Standard outlines the presentation of measurement taken under SE-101-A.

Product Code 2 May, 1949

\$30.00

SE-105

Microphones for Sound Equipment

This Standard provides definitions and methods of measurement for various electrical characteristics of microphones for sound equipment, to include field response, impedance, directional properties, sensitivity rating methods, and standard mounting threads.

Product Code 2 Aug, 1949

\$30.00

