

ANSI/CTA Standard

**Serial Communication Protocol for
Portable Electronic Devices**

ANSI/CTA-2017.1 R-2013

(Formerly ANSI/CEA-2017.1 R-2013)

November 2007



**Consumer
Technology
Association**

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(Formulated under the cognizance of the **CTA R6 Portable, Handheld and In-Vehicle Electronics Committee.**)

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FOREWORD

This standard was developed by the Consumer Electronics Association's (CEA) Mobile Electronics Committee (R6). It is intended to be a companion document to CEA-2017, Common Interconnection for Portable Media Players.

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Serial Communication Protocol for Portable Electronic Devices

1 Scope

This document describes a serial communication protocol that enables command and control communication between portable electronic devices and accessories attached to those devices. This protocol builds upon functions provided by the MOST[®] network developed by the MOST Cooperation (www.mostcooperation.com). MOST[®] is a registered trademark of SMSC (www.smisc.com).

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 section 2.1.1.

2.1.1 Normative Reference List

MOST Specification, Rev.2.5, 10/2006

MOST FunctionBlock AuxIn, Rev. 3.0-01, 7/2006

Universal Serial Bus Specification Revision 1.1, 9/23/1998

2.1.2 Normative Reference Acquisition

MOST Specifications:

- MOST Cooperation, Bannwaldallee 48, D-76185 Karlsruhe, Germany, Phone +49 (0)721 9 66 50 00
Internet: www.mostcooperation.com , Email: contact@mostcooperation.com

USB Specifications:

- USB Implementers Forum, 5440 SW Westgate Drive, Suite 217, Portland, OR 97221; Phone: +1 503 296 9892; Internet: www.usb.org

2.2 Definitions

CEA-2017 Device	A CEA-2017 device is a physical unit that can be connected to another CEA-2017 device through the physical interface defined in CEA-2017, <i>Common Interconnection for Portable Media Players</i> .
Function Block	A group of functions for a CEA-2017 device. A single CEA-2017 device may have multiple components and therefore multiple function blocks. For example, a typical portable media player might have a function block for an auxiliary component, and a function block for an audio amplifier.
Function	A component of a function block. For example, a portable media player function block might contain the functions DeviceStatus, and DeviceBrowsing.
Host Device	A device to which a portable electronic device may be connected for the purposes of controlling the portable electronic device and/or displaying or playing content from the portable electronic device.
Portable Electronic Device	An electronic device that may be carried around by its user. It may record and/or play back audio and/or video, and may also receive and send other data.
MOST Device	A MOST device is a physical unit, which can be connected to a MOST network via a MOST network interface controller.
MOST Specifications	The collective group of MOST specifications, including the MOST Specification, the MOST Specification of Physical Layer, the MOST Function Catalog, the MOST FunctionBlock AuxIn, the MOST Specification Framework, the MOST Medium Access Control Mechanism Specification, the MOST High Protocol Specifications, the MOST Content Protection Scheme – DTCP Implementation, and the MOST Content Security Specification.

2.3 Symbols and Abbreviations

CEA	Consumer Electronics Association
MOST	Media Oriented Systems Transport
Host Device	HDEV
Portable Electronic Device	PEDEV
Human Machine Interface	HMI
Identifier	ID
Function Block	FBlock
Function Block ID	FBlockID
Function ID	FktID
Operation Type	OPType
Second	s
Millisecond	ms