

ANSI/CEA Standard

MOST Network Gateway for Aftermarket Products

ANSI/CEA-2012-A

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(Formulated under the cognizance of the CEA's **R6 Mobile Electronics Committee**.)

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FOREWORD

This standard was developed by the Consumer Electronics Association's (CEA) Mobile Electronics Committee (R6). The predecessor to this standard, CEA-2012, documented the subset of requirements needed to create an aftermarket in-vehicle network, based on the Media Oriented Systems Transport (MOST[®]) standard, which could be used independent of any vehicle network and could also be connected to a factory-installed network if the vehicle manufacturer chose to provide a gateway function. CEA-2012-A expands on CEA-2012 by defining the gateway function between the aftermarket network and the factory-installed network, including a standard interface.

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MOST[®] Network Gateway for Aftermarket Products

1 Scope

CEA-2012-A defines the requirements for implementing an aftermarket network based on the Media Oriented Systems Transport (MOST[®]) specification. It is based on the MOST Specification. CEA-2012-A documents the subset of requirements needed to create an aftermarket MOST network that can be used independent of any vehicle network and can also be connected to a factory-installed network if the vehicle manufacturer chooses to provide a gateway function. CEA-2012-A provides an overview of the requirements. Specific implementations need to be developed using the detailed MOST specifications.

CEA-2012-A applies to any type of device connected to an aftermarket MOST network. Devices compliant with the normative provisions of CEA-2012-A interoperate with any other MOST compliant device.

CEA-2012-A addresses the MOST functions currently available and the system requirements needed to provide timing master, network master and connection master functions.

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.2.3, 11/2002

MOST Specification of Physical Layer, Rev 1.1, 9/2003

MOST Function Catalog

MOST FunctionBlock AuxIn, Rev. 2.3, 11/2003

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
Fax: +49 (0)721 9 66 50 01, 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 Informative Reference List

MOST Specification Framework, Rev 1.1

MOST Medium Access Control Mechanism (MAMAC) Specification, Rev. 1.1, 12/2003

MOST High Protocol Specifications, Rev. 2.1, 2/2001

MOST Content Protection Scheme – DTCP Implementation, Rev. 1.0, 2/2001