

ANSI/CTA Standard

**Modular Communications Interface for Generic
Display Message Set**

ANSI/CTA-2045.2

(Formerly ANSI/CEA-2045.2)

July 2014



**Consumer
Technology
Association**

NOTICE

Consumer Technology Association (CTA)TM Standards, Bulletins and other technical publications are designed to serve the public interest through eliminating misunderstandings between manufacturers and purchasers, facilitating interchangeability and improvement of products, and assisting the purchaser in selecting and obtaining with minimum delay the proper product for his particular need. Existence of such Standards, Bulletins and other technical publications shall not in any respect preclude any member or nonmember of the Consumer Technology Association from manufacturing or selling products not conforming to such Standards, Bulletins or other technical publications, nor shall the existence of such Standards, Bulletins and other technical publications preclude their voluntary use by those other than Consumer Technology Association members, whether the standard is to be used either domestically or internationally.

Standards, Bulletins and other technical publications are adopted by the Consumer Technology Association in accordance with the American National Standards Institute (ANSI) patent policy. By such action, the Consumer Technology Association does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the Standard, Bulletin or other technical publication.

This document does not purport to address all safety problems associated with its use or all applicable regulatory requirements. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

This document is copyrighted by the Consumer Technology Association and may not be reproduced, in whole or part, without written permission. Federal copyright law prohibits unauthorized reproduction of this document by any means. Organizations may obtain permission to reproduce a limited number of copies by entering into a license agreement. Requests to reproduce text, data, charts, figures or other material should be made to the Consumer Technology Association.

(Formulated under the cognizance of the CTA **R7.8 Modular Communication Interface for Energy Management Subcommittee.**)

Published by
©CONSUMER TECHNOLOGY ASSOCIATION 2015
Technology & Standards Department
www.CTA.tech

All rights reserved

FOREWORD

This standard was developed by the Consumer Electronics Association's R7.8 Modular Communications Interface for Energy Management subcommittee.

CONTENTS

1 Scope	3
2 References	3
2.1 Normative References	3
2.1.1 Normative Reference List	3
2.1.2 Normative Reference Acquisition	3
2.2 Compliance Notation	3
2.3 Definitions and Abbreviations	3
3 Message Set	4
3.1 Generic Display	4
3.1.1 Message Display Features	4
3.1.1.1 Get Message Display Features Request	5
3.1.1.2 Get Message Display Features Response	5
3.1.2 Price Display	5
3.1.2.1 Get Price Display Request	6
3.1.2.2 Get Price Display Response	6
3.1.2.3 Set Price Display Request	6
3.1.2.4 Set Price Display Response	7
3.1.3 Message Display	7
3.1.3.1 Get Message Display Request	7
3.1.3.2 Get Message Display Response	7
3.1.3.3 Set Message Display Request	8
3.1.3.4 Set Message Display Response	8

Modular Communications Interface for Generic Message Display

1 Scope

This specification is an extension of the ANSI/CEA-2045 Modular Communications Interface (MCI) for Energy Management standard. It presents messages and methods that enable generic message display over the MCI 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. Users of this standard are cautioned that newer editions of the referenced standards might or might not be compatible.

2.1.1 Normative Reference List

1. ANSI/CEA-2045, Modular Communications Interface for Energy Management, February 2013

2.1.2 Normative Reference Acquisition

1. Techstreet, 3916 Ranchero Drive, Ann Arbor, MI, USA 48108; Phone 800-699-9277; Fax 734-780-2046; Internet <http://www.techstreet.com>; Email techstreet.service@thomsonreuters.com

2.2 Compliance Notation

As used in this document “shall” and “must” denote mandatory provisions of the standard. “Should” denotes a provision that is recommended but not mandatory. “May” denotes a feature whose presence does not preclude compliance, and implementation of which is optional. “Optional” denotes items that may or may not be present in a compliant device.

2.3 Definitions and Abbreviations

Big-Endian	Specifies that the transmission byte order of a data stream is MSB first
LSB	Least Significant Byte e.g. for the value 0x12345678, 0x78 is the LSB
LSN	Bits 2^3 through 2^0 e.g. the LSN of 0xAB is 0xB
MSB	Most Significant Byte e.g. for the value 0x12345678, 0x12 is the MSB
MSN	Bits 2^7 through 2^4 e.g. the MSN of 0xAB is 0xA