



ANSI/TIA-232-F-1997

Approved: September 30, 1997

Reaffirmed: October 11, 2002

# TIA STANDARD

---

## Interface Between Data Terminal Equipment and Data Circuit- Terminating Equipment Employing Serial Binary Data Interchange

---

### TIA-232-F

(Revision of TIA/EIA-232-E)

OCTOBER 1997

---

TELECOMMUNICATIONS INDUSTRY ASSOCIATION



Representing the telecommunications industry in  
association with the Electronic Industries Alliance



## NOTICE

TIA Engineering Standards and 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 their particular need. The existence of such Standards and Publications shall not in any respect preclude any member or non-member of TIA from manufacturing or selling products not conforming to such Standards and Publications. Neither shall the existence of such Standards and Publications preclude their voluntary use by Non-TIA members, either domestically or internationally.

Standards and Publications are adopted by TIA in accordance with the American National Standards Institute (ANSI) patent policy. By such action, TIA does not assume any liability to any patent owner, nor does it assume any obligation whatever to parties adopting the Standard or Publication.

This Standard 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 Standard to establish appropriate safety and health practices and to determine the applicability of regulatory limitations before its use.

(From Standards Proposal No. 3-3761-RF1, formulated under the cognizance of the TIA TR-30.2 Subcommittee on DTE-DCE Interfaces and Protocols.)

**This Document was reaffirmed by the American National Standards Institute (ANSI) on October 11, 2002 and by the TIA.**

Published by  
©TELECOMMUNICATIONS INDUSTRY ASSOCIATION 1997  
Standards and Technology Department  
2500 Wilson Boulevard  
Arlington, VA 22201 U.S.A.

**PRICE: Please refer to current Catalog of  
TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION STANDARDS  
AND ENGINEERING PUBLICATIONS  
or call Global Engineering Documents, USA and Canada  
(1-800-854-7179) International (303-397-7956)  
or search online at [http://www.tiaonline.org/standards/search\\_n\\_order.cfm](http://www.tiaonline.org/standards/search_n_order.cfm)**

All rights reserved  
Printed in U.S.A.

**PLEASE!**

**DON'T VIOLATE  
THE  
LAW!**

This document is copyrighted by the TIA and may not be reproduced without permission.

Organizations may obtain permission to reproduce a limited number of copies through entering into a license agreement. For information, contact:

Global Engineering Documents  
15 Inverness Way East  
Englewood, CO 80112-5704 U.S.A. or call  
U.S.A. and Canada 1-800-854-7179, International (303) 397-7956