



ANSI/TIA/EIA-95-B-1999
Approved: February 3, 1999

TIA/EIA-95-B

TIA/EIA STANDARD

Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems

TIA/EIA-95-B

(Upgrade and Revision of TIA/EIA-95-A)

MARCH 1999

TELECOMMUNICATIONS INDUSTRY ASSOCIATION



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(From Standards Proposal Nos. 3693 and 3693-1, formulated under the cognizance of the TIA TR-45.5 Subcommittee on Spread Spectrum Digital Technology).

(TIA/EIA-95-B is an Upgrade and Revision of TIA/EIA-95-A which also incorporates TSB74 and ANSI-J-STD-008)

Published by

8TELECOMMUNICATIONS INDUSTRY ASSOCIATION 1999
Standards and Technology Department
2500 Wilson Boulevard
Arlington, VA 22201

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PREFACE

1 These technical requirements form a compatibility standard for 800 MHz cellular mobile
2 telecommunications systems and 1.8 to 2.0 GHz Code Division Multiple Access (CDMA)
3 Personal Communications Services (PCS) systems. They ensure that a mobile station can
4 obtain service in a cellular or PCS system manufactured according to this standard. These
5 requirements do not address the quality or reliability of that service, nor do they cover
6 equipment performance or measurement procedures.

7 To ensure compatibility (see Note 1), both radio-system parameters and call-processing
8 procedures must be specified. The sequence of call-processing steps that the mobile
9 stations and base stations execute to establish calls has been specified along with the
10 digital control messages and analog signals that are exchanged between the two stations.

11 The base station is subject to fewer compatibility requirements than the dual-mode mobile
12 station. Radiated power levels, both desired and undesired, are fully specified for dual-
13 mode mobile stations to control the RF interference that one mobile station can cause
14 another. Base stations are fixed in location and their interference is controlled by proper
15 layout and operation of the system in which the station operates. Detailed call-processing
16 procedures are specified for mobile stations to ensure a uniform response to all base
17 stations. Base station call procedures are not specified in detail because they are a part of
18 the overall design of the individual land system. However, the base station call-processing
19 procedures must be compatible with those specified for the mobile station. This approach
20 to writing the compatibility specification provides the land system designer with sufficient
21 flexibility to respond to local service needs and to account for local topography and
22 propagation conditions.

23 This specification includes provisions for future service additions and expansion of system
24 capabilities.

25

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