

JEDEC STANDARD

POD135 - 1.35 V Pseudo Open Drain I/O

JESD8-21C

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JEDEC SOLID STATE TECHNOLOGY ASSOCIATION



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POD135 - 1.35V PSEUDO OPEN DRAIN I/O

(From JEDEC Board Ballot JCB-19-13, formulated under the cognizance of the JC-16 Committee on Interface Technology.)

1 Scope

This standard defines the dc and ac single-ended (data) and differential (clock) operating conditions, I/O impedances, and the termination and calibration scheme for 1.35V Pseudo Open Drain I/Os. The 1.35V Pseudo Open Drain interface, also known as POD135, is primarily used to communicate with GDDR5 or GDDR5M SGRAM devices.

Multiple Classes of POD135 are expected to reside within the family of POD135 interfaces in order to accommodate various device and market applications. The various classes standardized within the context of POD135 are documented in the appendices of this document (e.g., POD135/Class A, POD135/Class B, etc).

The core of this standard defines documents the subset of values common to all Classes of POD135 and documents specification items left to definition within a specific Class as denoted by CDV which is defined as Class Dependent Value.

The values specific to each particular class of POD135 are found in the annexes. See specific Class tables for further details. (Note it does not follow that all specification values defined in a given Class are necessarily different from the matching parameter in other Class within POD135. Multiple Classes may reuse a given specification value if appropriate to the Class requirements.)

Classes were not part of the original POD135 specification. With the addition of Classes the original POD135 values remain unchanged and grouped as POD135/Class A and POD135/Class C. The updates to the specification are included in POD135/Class B and POD135/Class D. As other devices or market applications are defined, they may use one of the already defined Class(es) or define a new Class.