*Keyword:* [EMD Parts]

*Required:* Yes, if [Designator Pin List] is defined below

*Description:* Maps an EMD part to an IBIS component or EMD module.

*Usage Rules:* The [EMD Parts] keyword shall be followed by a list of all the EMD parts (also called part numbers or part names in industry).Each EMD part is followed by the file reference of the .ibs or .emd file containing the electrical description of the component or board, then the name of the component itself as given by the .ibs or .emd file’s [Component] or [Begin EMD] keyword respectively.  While official names of parts are recommended, this is not required. The referenced .ibs or .emd files shall exist in the same directory as the calling .emd file or shall exist in a relative path under this directory.

For the context in thisElectrical Module Description section, a “part” declaration shall be one data line under [EMD Parts].

A part that is an .emd file can itself reference an EMD module. This shall be limited to 6 hierarchy levels of nested .emd files.

An EMD file may not reference itself directly or indirectly.

The EMD part, file reference, and component/define module name terms are separated by white space.

The EMD part is limited to forty characters.

Every part referenced in the EMD Designator List shall have one and only one entry in this list of parts.

NAs in the file reference and component/define module columns are permitted if the part has functionality outside of the scope of the IBIS specification, such as certain analog parts. The NA in the File reference column indicates that the part model is not available, although its pinout may be known and included as [Designator Pin List] entries.

It is also permitted to use a .ibs file and a component/define module name to show the part pinout and to document some known rails and digital I/O pins that are supported by IBIS. Pins whose functions are not supported by IBIS could be documented with NC or with Terminator models.

A [Notes] section or a separate readme file should document these unknown parts or parts where certain pins cannot be modeled in IBIS. Some EDA tools may deal with these special cases in a tool-specific manner.

*Example:*

[EMD Parts]

|

| part\_name file\_reference component/define\_module

Processor pp100.ibs Processor

Memory\_16X8 simm.emd 16X8\_SIMM

74LS244 ls244.ibs NoName\_74LS244

Res\_10K r10K.ibs My\_10K\_Pullup

|

ABC NA NA | Undocumented Parts

BCD NA NA | without files

|

C555 timer.ibs X555 | Timer with digital control

|

[End EMD Parts]