

## Data/files request/check in

### Assembly:

- Bill of Materials with ref des and AVL. (xls, csv or txt preferred). \*\*\*
- Assembly drawings (dxf, pdf, dwg) \*\*\*
- CAD file (for machine programming. See below for supported CAD formats). \*\*\*
- Mechanical/Assembly drawings (dxf, pdf, dwg preferred).
- Programs for programmable parts including labeling data.

### PCB Fab:

- Fab Drawing (dxf, pdf, dwg preferred).
- Fab data (gerber files etc.).
- Stencil data (gerber files for paste layers). \*\*\*
- Array/step and repeat information (gerber, dxf, pdf, dwg preferred). \*\*\*

### Test:

- Schematics (searchable pdf preferred).
- Test procedure and test data.
- CAD Data (ascii preferred).

### Misc:

- Sample board.
- Rework instructions (.doc, xls, pdf preferred).
- Special work instructions (doc, xls, pdf, txt preferred).

\*\*\* Minimum requested data for consignment order, turn-key will add PCB fab data.

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### Supported CAD formats for SMT Programming:

Native CAD Data
Accel EDA , Accel Tango, & Accel PCAD
Cadence Allegro via Aegis Script
DIF (Design Interchange Format), PADS DFT Audit, and C-Link
EE Designer III ASCII File
GenCAD v. 1.4
INCASES TL CAD File
Intergraph Veribest GenCAD
IPC-D-356
Mentor Graphics Neutral File
OrCAD
PADS PowerPCB, PADS Perform, PADS 2000, PADS Work
Pantheon PDB File
P-CAD PDIF Design File
P-CAD for DOS
Protel 98/99 ASCII PCB File
SCI Cards Neutral File
Supermax CAD
Tango for DOS
Ultiboard
Valor ODB++ CAD Project
Zuken Visula and Cadstar

3rd Party CIM Software Applications
Fabmaster FATF File
Panapro / PanaCIM PCB File
Unicam Project File

PCB Design Data	Format	Provides	Required?
Gerber Data	RS-274X, RS-274-D	Locations, reference designators, and board graphics	YES
Aperture List	Text File	Shape information required to render the Gerber image	RS-274-D: YES RS-274-X: NO
Centroid File	Text File	Relative locations of components (defined by reference designator) on the PCB. Allows automatic joining of references to the Gerber data.	NO: However, the use of this file expedites Gerber processing.