

First Article Report

Customer: Gumstix

EWO: #0175

Qty: 12

6-In-1 PCBA: BRD90000000246-R5
BRD90000000260-R3
BRD90000000286-R3
BRD90000000287-R3
BRD90000000288-R3
BRD90000000289-R3

Problems Found:

- 1) Reference designators: Not quite in order. Most resistors capacitors and diodes are affected on 5 different assemblies.
- 2) Drawing and PCB Panel – Reference designators are not clear. Some PCB silkscreens have no reference designators, like SMT and through hole connectors, I.C. And QFN. Many tiny reference designators overlap with each other making them difficult to read.
- 3) Part Number: Q001-SOT23 has 2 of 3 pins not quite match the footprint which is narrower than the pins which caused misalignment. This affects 3 different assemblies.

Board 246-R5; Q3, Q4, and Q5
Board 288-R1: Q1 → Q8
Board 287-R2: Q2, and Q3
- 4) Board 286-R4: Part Number ICL068. BOM called out U\$40 and U\$42. U\$40 matches the footprint. U\$42 barely matches the footprint and acceptable.
- 5) Board 286-R4: BOM called out U3 and RP2 in on location. Verified with customer; install RP2 and do not install U3.
- 6) Board 286-R4: Part number CON057 – Location U\$14 footprint does not match. Verified with customer; install as it.
- 7) Board 286-R4: Bottom side. One SMT connector missing silkscreen (next to U4), and footprint is incorrect; missing pins and support pads.
- 8) Board 289-R1. Part number CA227, through hole capacitor, C21 and C22. Additional information supplied by customer is not sufficient; orientation and which way leads bend.
- 9) Board 287-R2. Part number CON00002. BOM conflict for U\$2. Not yet verified with customer.
- 10) Board 287-R2. Locations JP1 and JP2. Leads protrude approximately 0.5 inches on bottom side. IPC requires clipping. Verified with customer. Leave as is.

