

| 5            | 6        | 7          | 8                 |
|--------------|----------|------------|-------------------|
| DESCRIPTION  | APPROVED | DATE       | REV. CHANGE ORDER |
| NEW DOCUMENT | KEDEM S. | 24/06/2004 | A                 |

**GENERAL NOTES:**

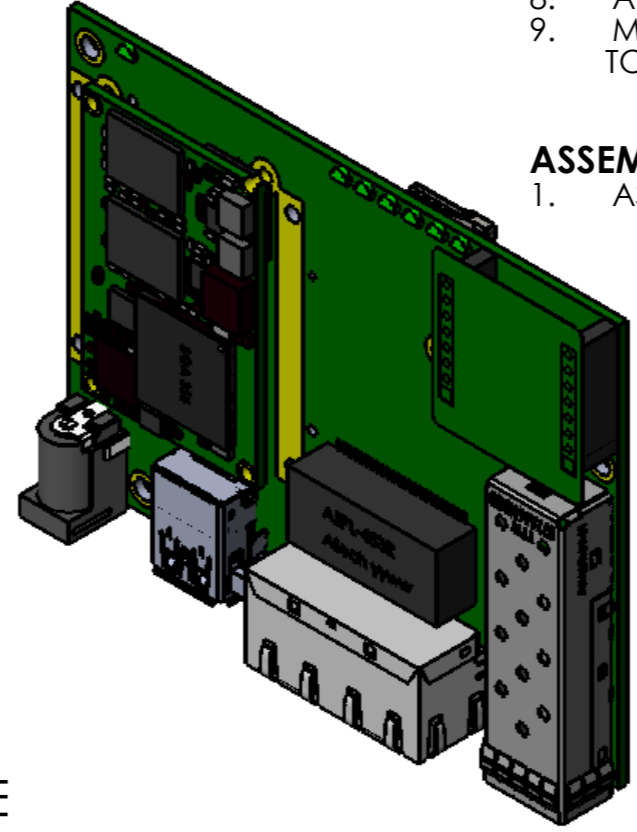
- COMPONENT SIDE:
  - MAX. COMPONENT HEIGHT: 10.0mm OTHER THAN SPECIFIED
- PRINT SIDE:
  - MAX. COMPONENT HEIGHT: 5mm OTHER THAN SPECIFIED

**PCB PRODUCTION:**

- MATERIAL: FR4, BOARD THICKNESS 1.6mm. FLAME RESISTANT PER UL94-V0
- THE PCB SHOULD BE RoHS COMPLIANT, ALL THE SOLDER PADS SHOULD BE GOLD PLATED (NICKEL /IMMERSION GOLD).
- UNLESS OTHERWISE SPECIFIED, REFERENCE IPC-A-600H ACCEPTABILITY SPECIFICATIONS
- GLOSSY WHITE SHALL BE USED FOR SILK PRINT
- UNLESS OTHERWISE SPECIFIED LINE REDUCTION DUE TO VOIDES, SCREATCHES, NICKS, AND/OR SHRINKAGE SHALL NOT EXCEED 20% OF CONDUCTOR WIDTH.
- UL FLAMMABILITY RATING SHOULD BE SILK PRINTED ON EITHER THE COMPONENT OR PRINT SIDE.
- ALL THE HOLE DIMENSIONS GIVEN BELOW ARE DIMENSIONS AFTER PLATING.
- APPLY GREEN. SOLDERMASK ON BOTH SIDES OF THE BOARD.
- MECHANICAL HOLES, MARKEN "M" SHOULD BE CONNECTED TO THE SHIELD LAYER

**ASSEMBLY INSTRUCTIONS:**

- ASSEMBLY MUST CONFORM WITH IPC-610 CLASS II



CHANGE FROM PREVIOUS VERSION:  
1. MicroSD LOCATION CHANGED

PRINT SIDE

**Korat Engineering Ltd.**

Mobile: 058-4624069  
korat.avi@gmail.com

| NAME     | DATE     | SCALE      | SURFACE ROUGHNESS |
|----------|----------|------------|-------------------|
| DESIGNER | Avi Levy | 09/08/2016 |                   |
| DRAWING  | Avi Levy | 09/08/2016 | 1:1               |
| APPROVAL |          | 09/08/2016 |                   |

CUSTOMER: **SolidRun** PROJECT: **CLEARFOG BASIC**

NAME: **CLEARFOG BASIC BOARD ASSY**

TOL. NOT SPECIFIED  $\pm 0.5$  mm  
 ANGLES NOT SPECIFIED  $\pm 0.5^\circ$   
 REMOVE ALL SHARPE EDGES.  
 MATERIAL:  
 FINISH:

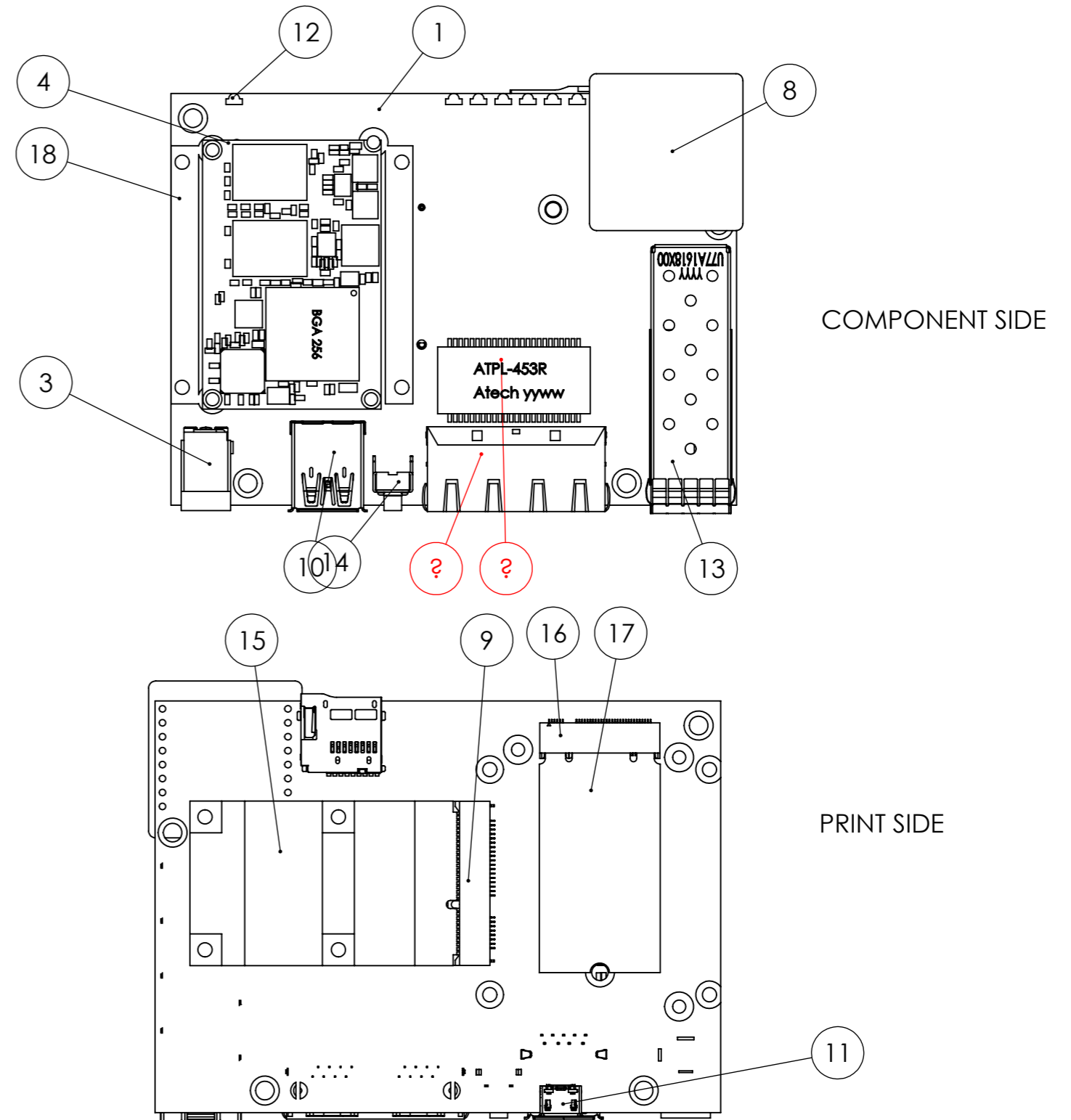
DRAWING NO.: **Clearfog Base\_Rev.2.2 board Assy**

REV. **A** DRAWING SIZE **A3**

Property of Korat Engineering ALL DIMENSIONS ARE IN MILLIMETERS

SHEET 1 OF 2

| ITEM NO. | PART NUMBER  | DESCRIPTION               | QTY. |
|----------|--|---------------------------|------|
| 1        | Clearfog Board_Rev.2.2                               |                           | 1    |
| 2        | raspberry_pi_B+_(slot)                               |                           | 1    |
| 3        | DC Jack Horizontal_Kycon KLDHCX-0202-A-LT_rA3        |                           | 1    |
| 4        | A38XuSoM-rev2.0                                      |                           | 1    |
| 5        | DF40C-80DP   |                           | 2    |
| 6        | User Library-TQFN56                                  |                           | 1    |
| 7        | User Library-BGA 256 17x17mm 1mm pitch               | BGA 256 17x17mm 1mm pitch | 1    |
| 8        | Mikro BUS  |                           | 1    |
| 9        | Mini PCI-E Right Angle_TE 2041119-1                  |                           | 1    |
| 10       | USB3 Type A_Antenk-U3AFR01                           |                           | 1    |
| 11       | Micro USB_FCI-10103594                               |                           | 1    |
| 12       | LED Right Angle_Everlight 020-12-21-SDRC-S530-xx-TR8 |                           | 7    |
| 13       | Amphenol_M-U77-A16X8-X001-REVT1                      |                           | 1    |
| 14       | Wellbuying_1102H                                     |                           | 1    |
| 15       | mSATA  |                           | 1    |
| 16       | M.2 Connector Key B_TE c-2199230-3-b1-3d             |                           | 1    |
| 17       | M.2 22x40 SSD  |                           | 1    |
| 18       | Heat Sink-15mm                                       |                           | 1    |
| 19       | Dual RJ45  |                           | 1    |
| 20       | Magnetics 2 port_Aoem ATPL-453R                      |                           | 1    |



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|   |          |      |            |       |     |  |          |              |                |
|---|----------|------|------------|-------|-----|--|----------|--------------|----------------|
| DESIGNER  | Avi Levy | DATE | 09/08/2016 | SCALE | 1:1 | CUSTOMER                                     | SolidRun | PROJECT      | CLEARFOG BASIC |
| DRAWING   | Avi Levy | DATE | 09/08/2016 |       |     | NAME: CLEARFOG BASIC BOARD ASSY              |          |              |                |
| APPROVAL  |          | DATE | 09/08/2016 |       |     | DRAWING NO. Clearfog Base_Rev.2.2 board Assy |          |              |                |
| TOL. NOT SPECIFIED ± 0.5 mm<br>ANGLES NOT SPECIFIED ±0.5°<br>REMOVE ALL SHARPE EDGES.<br>MATERIAL:<br>FINISH: |          |      |            |       |     | Propriety of Korat Engineering               |          | REV.         | A              |
|   |          |      |            |       |     | ALL DIMENSIONS ARE IN MILLIMETERS            |          | DRAWING SIZE | A3             |
|   |          |      |            |       |     |  |          | SHEET 2 OF 2 |                |