

### Model List

Model Name	60PN	GPU	Date
PH-RX550-4G-EVO	YV0AG2	C944PI	2020/5/13

### STANDARD APPEARANCE

PH-RX550-4G-EVO





The diagram illustrates the internal architecture of the Baffin SoC, centered around the **BAFFIN S4** core. Key components and interfaces include:

- Debug and JTAG:** Includes **DEBUG HEADER**, **JTAG**, and **JTAG HEADER** connected to the **DBG** and **JTAG** pins of the SoC.
- Memory:** **MEMORY CHAB** is connected to the **CHAB** pin and an external **CHAB GDDR5 4pcs x32** memory module.
- Display and Video:**
  - DP** (DisplayPort) interface with **+3.3V\_VDD** and **+1V\_VDDA** pins, connected to **AC CARS** and **AC CARS TERMINATIONS**.
  - HDMI** interface with **+1V\_VDDA** pin, connected to **AC CARS** and **AC CARS TERMINATIONS**.
  - DVI-D** interface with **+1V\_VDDA** pin, connected to **AC CARS** and **AC CARS TERMINATIONS**.
- Thermal and Fan Control:**
  - THRM** (Thermal) block with pins **THRM0**, **THRM1**, **THRM2**, **THRM3**, **THRM4**, **THRM5**, **THRM6**, and **THRM7**.
  - EXT THERMAL THERMAL SENSOR** block connected to **THRM0** and **THRM1**.
  - FAN SPEED CONTROL** block connected to **THRM2** and **THRM3**.
  - FAN** (Fan) block connected to **THRM4** and **THRM5**.
  - POWER ENABLE SEQUENCING** block connected to **THRM6** and **THRM7**.
- System and Power:**
  - STOP/S** and **ELP/STOP VDDIO/VEH1** pins connected to **STOP/S** and **ELP/STOP VDDIO/VEH1** pins of the SoC.
  - CLOCK CHIP** and **CRYSTAL** blocks connected to **CLK** and **CRYST** pins of the SoC.
  - PCI-E BAFFIN GDDR5 4pcs x32** and **DP HDMI DL-DVI FH 6L 5.7** external components.

## POWER FLOW



# BGA REFLOW PROFILE

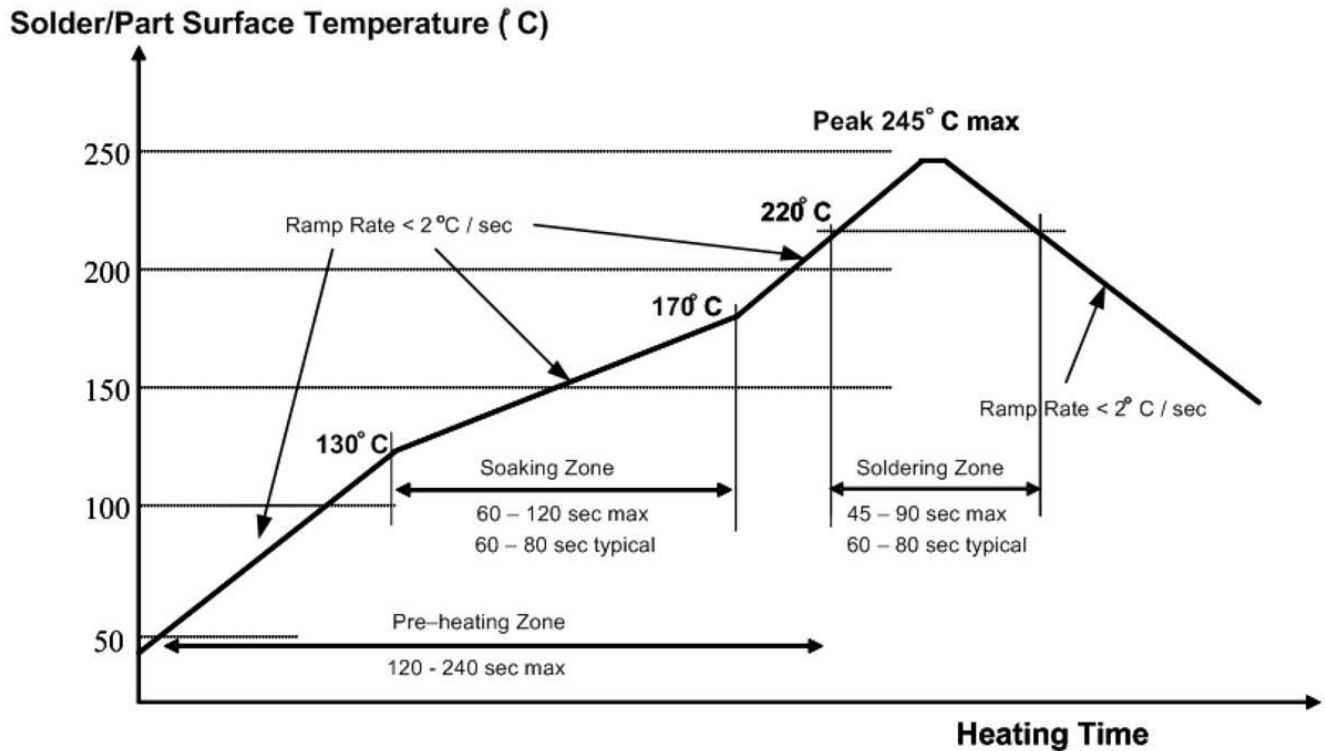


Table 7-2 Recommended Profiling — RoHS/Lead-Free Solder

Profiling Stage	Temperature	Process Range
<b>Overall Preheat</b>	Room temperature to 220°C	Two to four minutes
<b>Soaking Time</b>	130°C to 170°C	Typically 60 to 80 seconds
<b>Liquidus</b>	220°C	Typically 60 to 80 seconds
<b>Ramp Rate</b>	Ramp up and cooling	< 2° C / second
<b>Peak</b>	Maximum 245°C	235°C ± 5°C
<b>Temperature at Peak Within 5°C</b>	240°C to 245°C	10 to 30 seconds