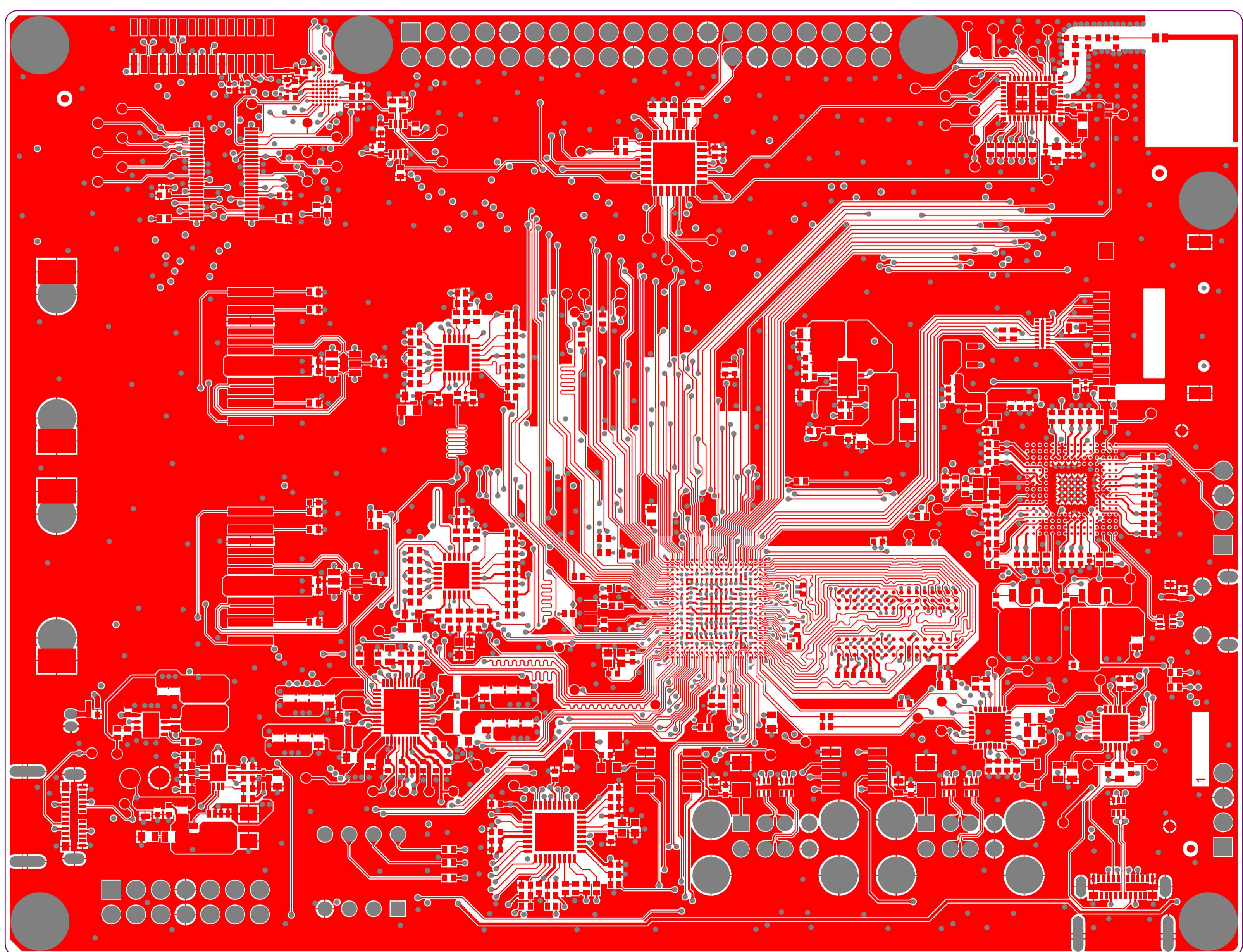


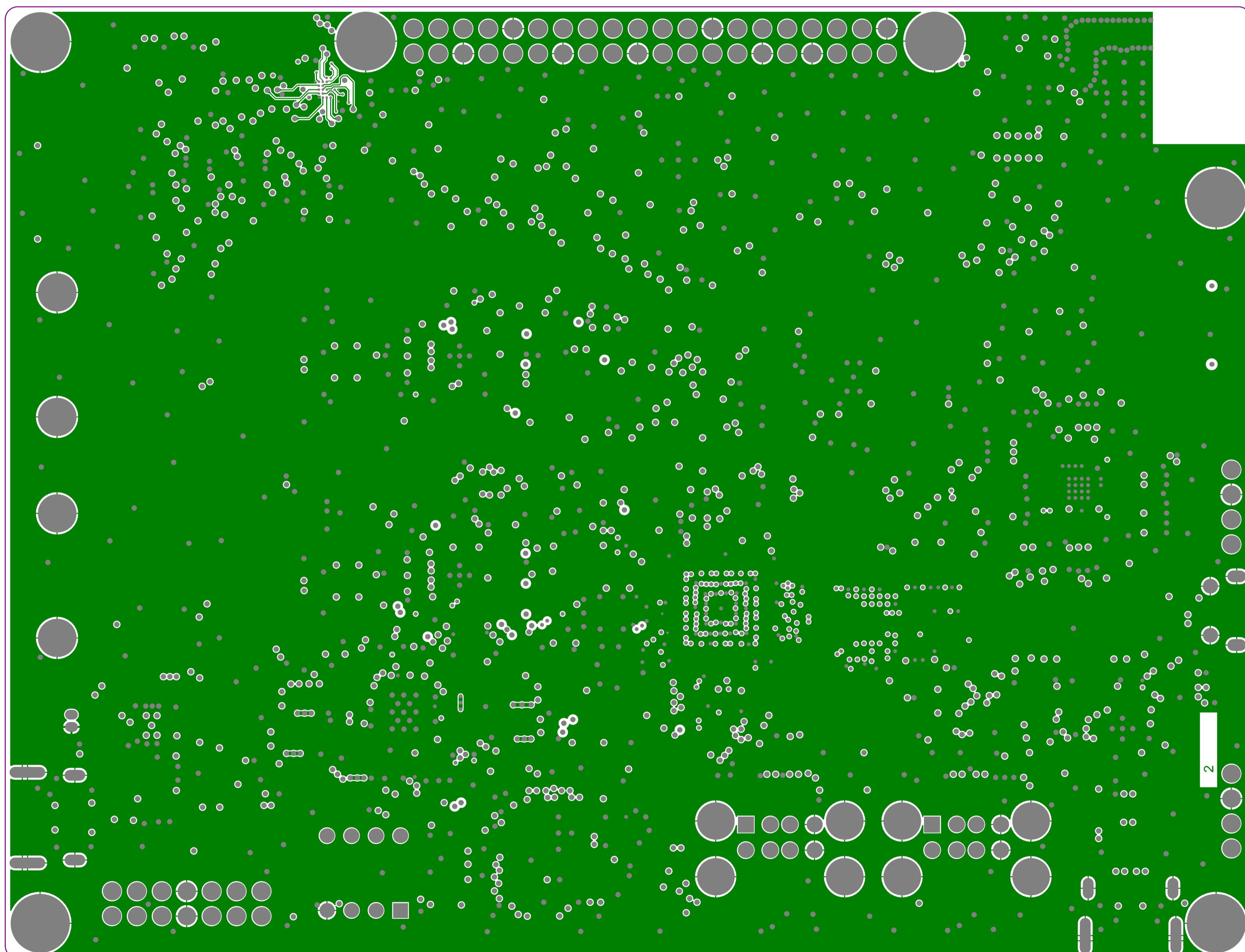
Top Solder

.GTS



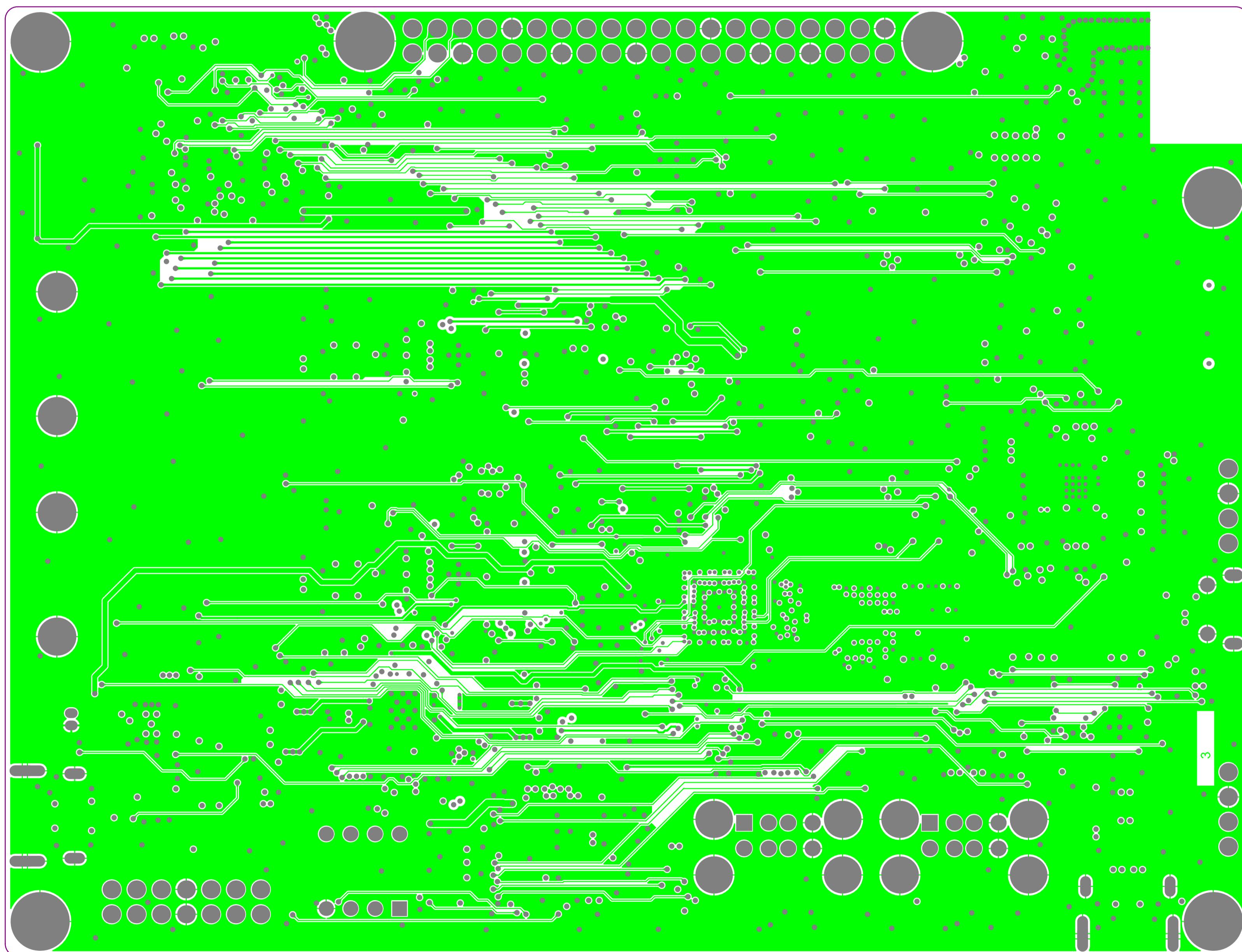
Top Layer

.GTL



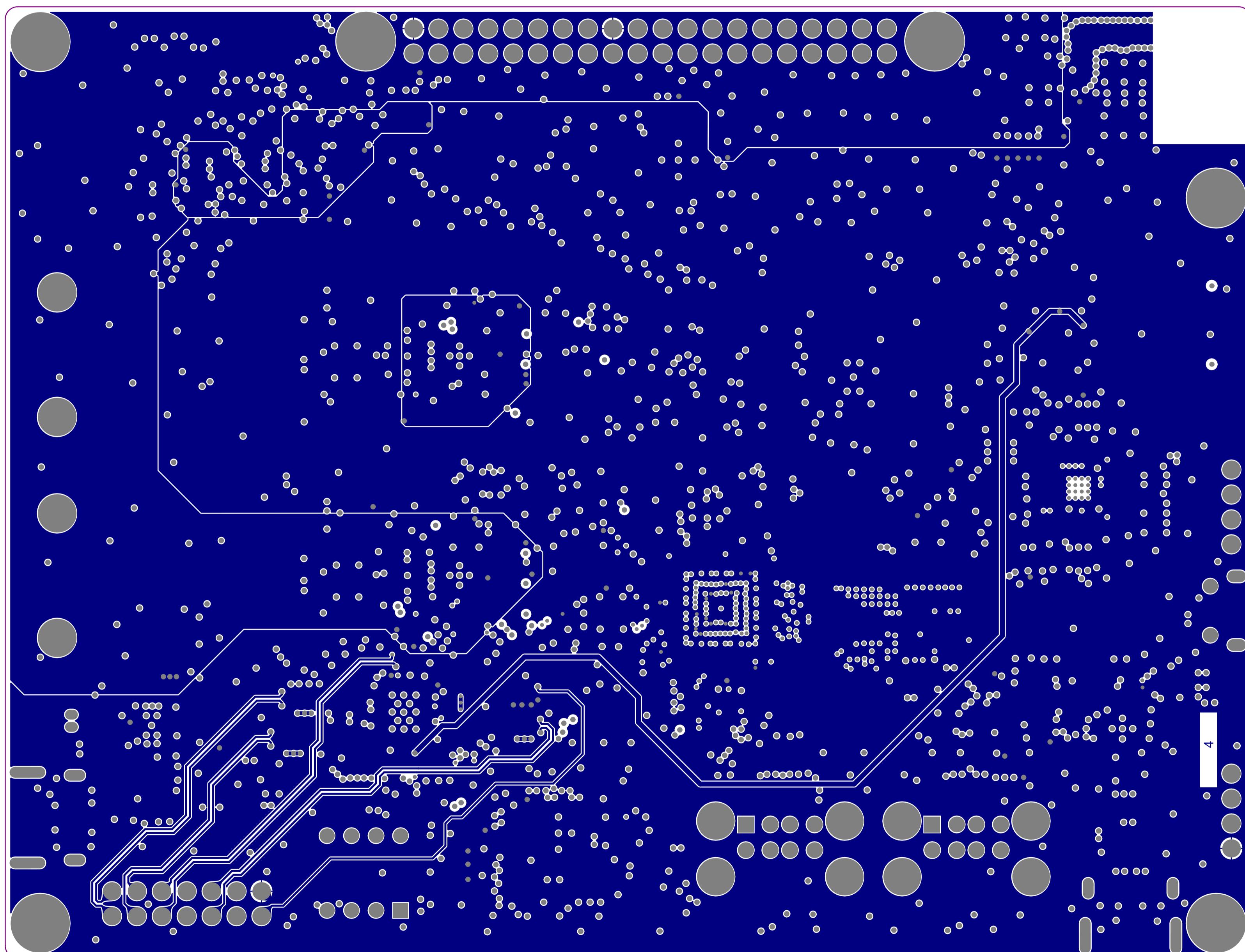
Signal Layer 1

.G1



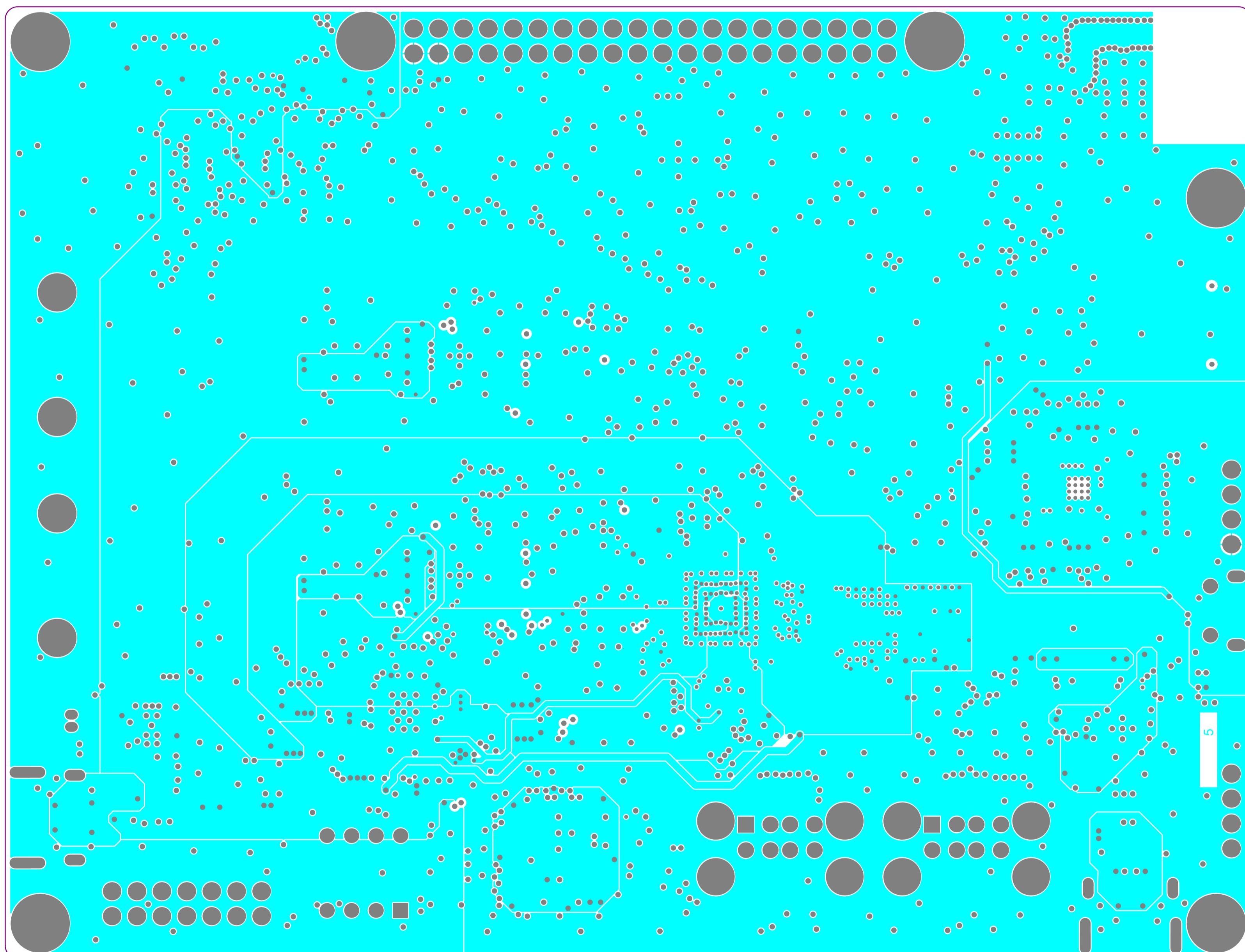
Signal Layer 2

.G2



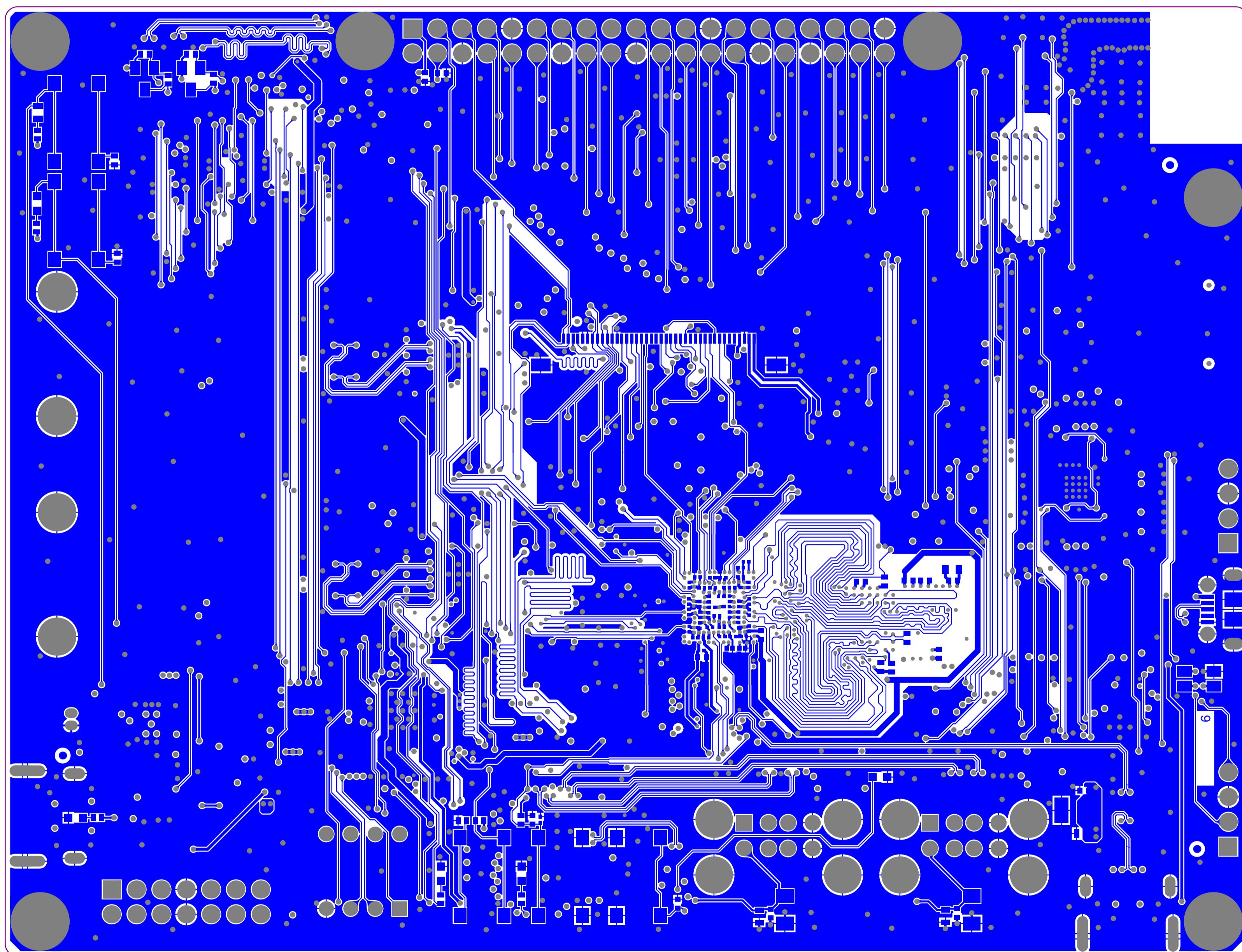
Signal Layer 3

.G3



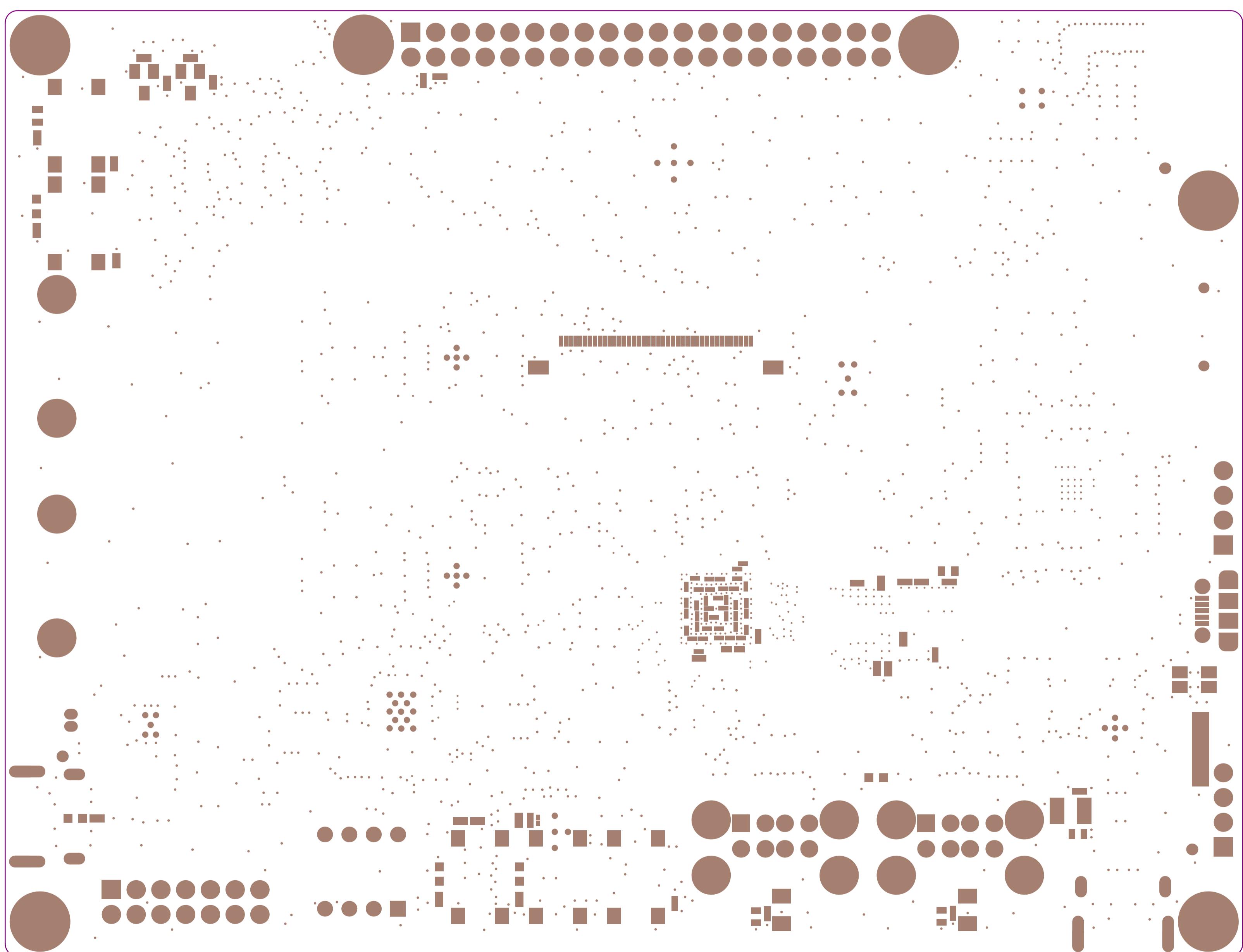
Signal Layer 4

.G4



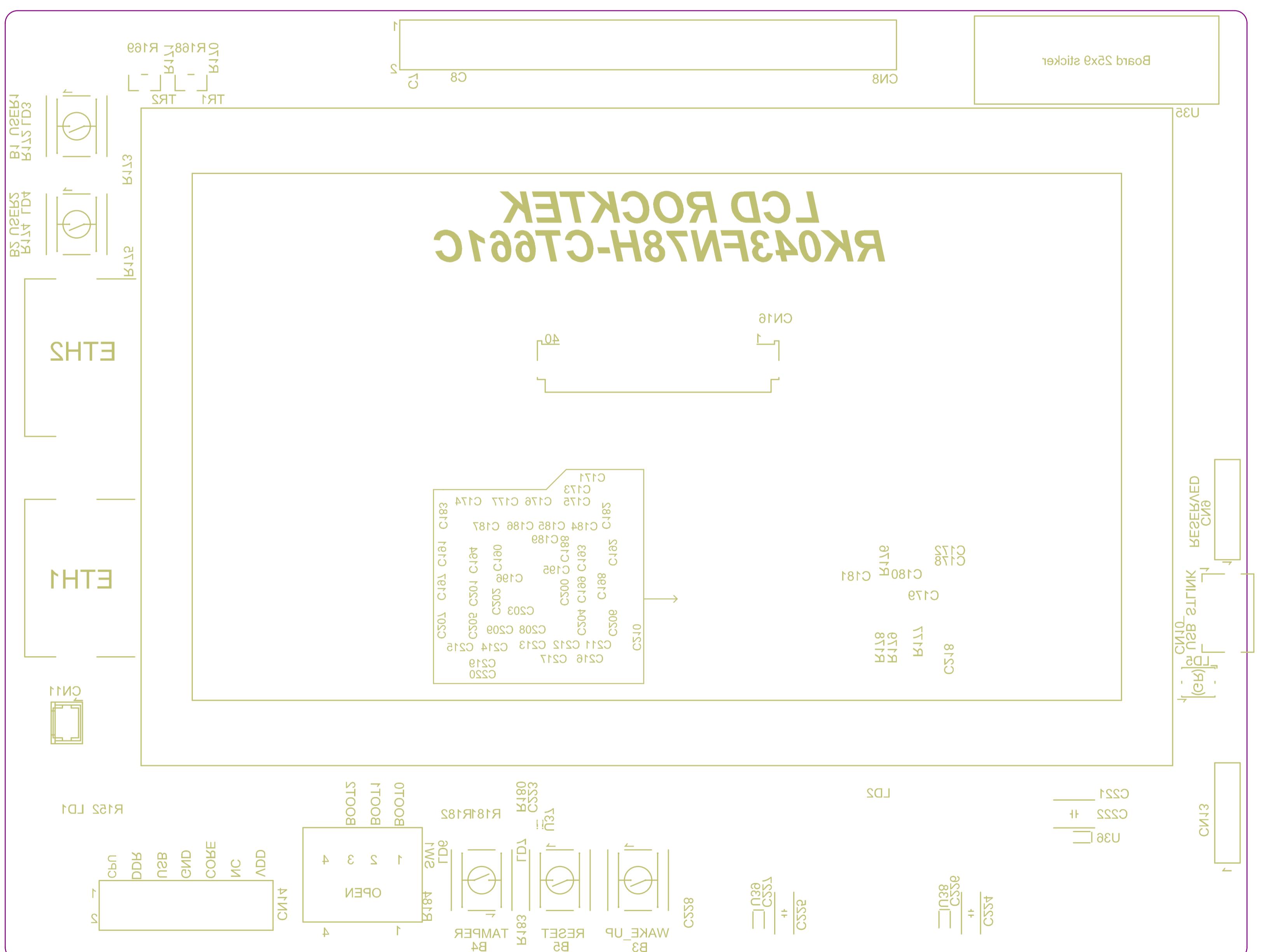
.GTR

Bottom Layer



GB2

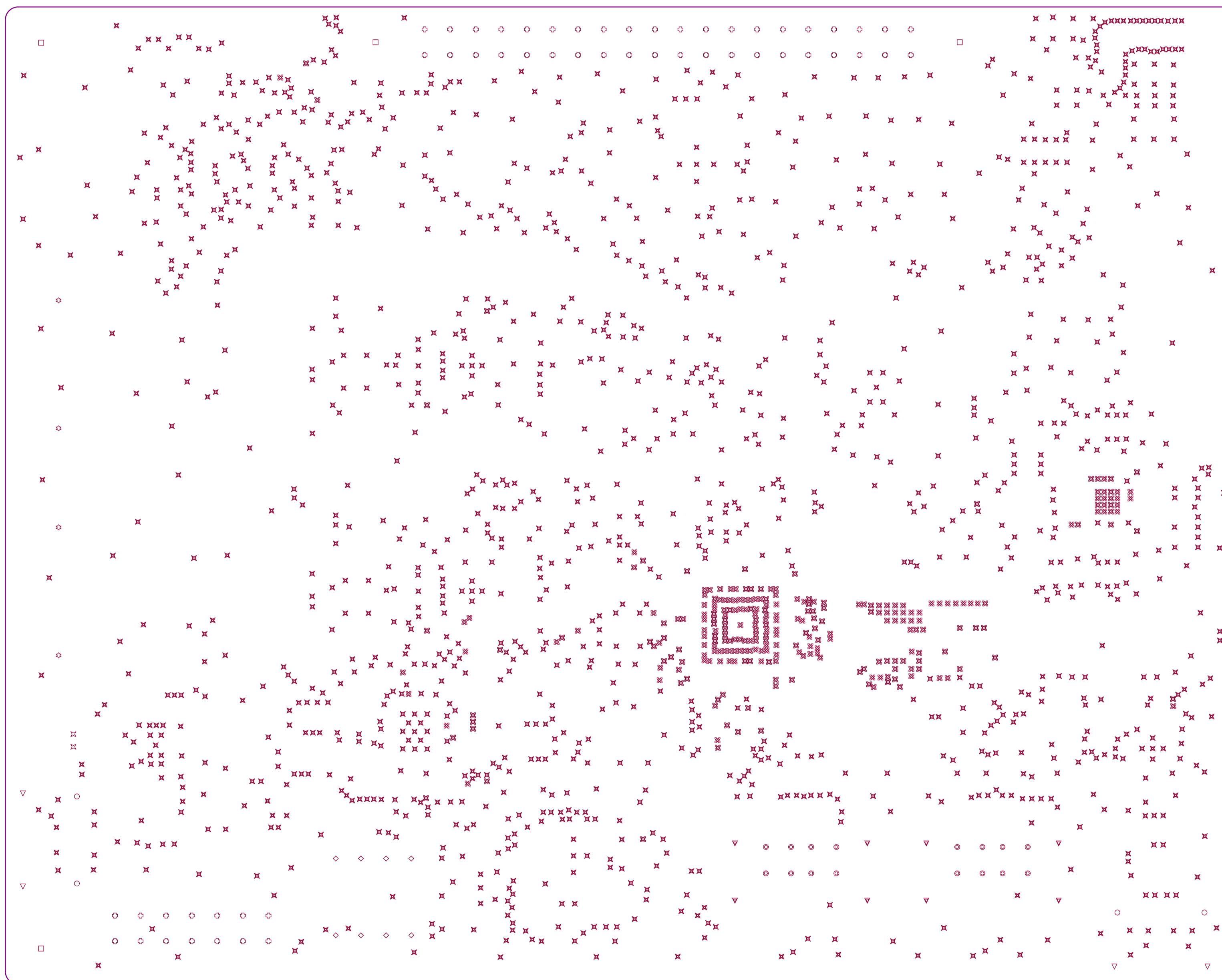
Bottom Solder



PCB SPECIFICATIONS :

- A. MATERIAL : FR-4 TG-170 TG-150 TG-140
- B. MATERIAL FAMILY : N/A
- C. SOLDERMASK COLOR : GREEN BLUE RED BLACK
- D. SILKSCREEN COLOR : WHITE YELLOW BLACK
- E. SURFACE FINISH : ENIG IMMERSION SILVER IMMERSION TIN
- HASL HASL (PB-FREE) GOLDEN FINGER
- F. IMPEDANCE CONTROL : NO YES (SEE IMPEDANCE TABLE FOR DETAIL INFORMATION)
- G. THROUGH VIA : PLUG THE VIAS WHICH ARE COVERED WITH SOLDERMASK ONE OR TWO SIDE.
- H. STACK-UP : PLUG MATERIAL : SOLDERMASK NON-CONDUCTIVE EPOXY.
SEE LAYER STACK-UP SEQUENCE FOR OVERALL THICKNESS.

| MINIMUM PARAMETERS | | | | | |
|------------------------------------|--|--|--|--|--|
| DEFAULT | | | | | |
| TRACKS : 0.100mm GAPS : 0.100mm | | | | | |
| UNDER MPU | | | | | |
| TRACKS : 0.090mm GAPS : 0.080mm | | | | | |
| UNDER DDR | | | | | |
| TRACKS : 0.090mm GAPS : 0.080mm | | | | | |



Drill Drawing

.DRL

| Layer | Name | Material | Thickness | Constant | Board Layer Stack |
|-------|----------------|---------------|-----------|----------|-------------------|
| | Top Overlay | | | | |
| | Top Solder | Solder Resist | 0,025mm | 3,5 | |
| 1 | Top Layer | Copper | 0,027mm | | |
| | Dielectric 1 | | 0,068mm | 4 | |
| 2 | Signal Layer 1 | Copper | 0,033mm | | |
| | Dielectric 2 | | 0,510mm | 4 | |
| 3 | Signal Layer 2 | Copper | 0,033mm | | |
| | Dielectric 3 | | 0,215mm | 5 | |
| 4 | Signal Layer 3 | Copper | 0,033mm | | |
| | Dielectric 4 | | 0,510mm | 4 | |
| 5 | Signal Layer 4 | Copper | 0,033mm | | |
| | Dielectric 5 | | 0,068mm | 4 | |
| 6 | Bottom Layer | Copper | 0,027mm | | |
| | Bottom Solder | Solder Resist | 0,025mm | 3,5 | |
| | Bottom Overlay | | | | |

| Symbol | Count | Hole Size | Plated | Hole Type | Drill Layer Pair | Via/Pad | Pad Shape | Template | Hole Tolerance (+) | Hole Tolerance (-) |
|--------|------------|---------------------|--------|-----------|--------------------------|---------|-----------|-----------------------------|--------------------|--------------------|
| ☒ | 2 | 0,500mm (19,69mil) | PTH | Round | Top Layer - Bottom Layer | Pad | Rounded | (Mixed) | 0,050mm (1,97mil) | 0,050mm (1,97mil) |
| ☒ | 2 | 0,600mm (23,62mil) | PTH | Slot | Top Layer - Bottom Layer | Pad | Rounded | r190_120h60_130r100m195_125 | | |
| □ | 2 | 1,000mm (39,37mil) | NPTH | Round | Top Layer - Bottom Layer | Pad | Rounded | c50hn100m105p1050 | | |
| ○ | 4 | 0,600mm (23,62mil) | PTH | Slot | Top Layer - Bottom Layer | Pad | Rounded | r210_110h60_160r100m215_115 | | |
| ▽ | 4 | 0,600mm (23,62mil) | PTH | Slot | Top Layer - Bottom Layer | Pad | Rounded | r260_110h60_210r100m265_115 | | |
| ❖ | 4 | 3,250mm (127,95mil) | PTH | Round | Top Layer - Bottom Layer | Pad | Rounded | c390h325m395 | | |
| □ | 6 | 3,500mm (137,79mil) | PTH | Round | Top Layer - Bottom Layer | Pad | Rounded | c600h350 | | |
| ▽ | 8 | 2,330mm (91,73mil) | PTH | Round | Top Layer - Bottom Layer | Pad | Rounded | c380h233 | | |
| ◊ | 10 | 0,900mm (35,43mil) | PTH | Round | Top Layer - Bottom Layer | Pad | (Mixed) | (Mixed) | | |
| ◎ | 16 | 0,920mm (36,22mil) | PTH | Round | Top Layer - Bottom Layer | Pad | (Mixed) | (Mixed) | | |
| ✚ | 62 | 1,000mm (39,37mil) | PTH | Round | Top Layer - Bottom Layer | Pad | Rounded | (Mixed) | | |
| ☒ | 276 | 0,200mm (7,87mil) | PTH | Round | Top Layer - Bottom Layer | Via | Rounded | v40h20m20 | | |
| ☒ | 1438 | 0,250mm (9,84mil) | PTH | Round | Top Layer - Bottom Layer | Via | Rounded | (Mixed) | | |
| | 1834 Total | | | | | | | | | |

Slot definitions : Routed Path Length = Calculated from tool start centre position to tool end centre position.
Hole Length = Routed Path Length + Tool Size = Slot length as defined in the PCB layout