

Samsung chip manufacturing in Austin, Texas

“[An industry analyst] added that the state’s failure to provide stable power will be a chief consideration for Samsung executives as they decide whether to build a \$17 billion plant in Austin.

“Samsung and NXP have massive facilities in Austin. Samsung's campus off Parmer Lane in North Austin supports 10,000 jobs, between roughly 3,000 Samsung employees and thousands of contractors. The facility spans 2.45 million square feet, 450,000 of which are dedicated to manufacturing.

“Trade publication ExtremeTech reported that Samsung’s two Austin fabs, both on its Parmer campus, produce about 5% of the world's 300-millimeter wafers per month.

“[The fab] operates around the clock every day and boasts about 13 miles of rail for the roughly 700 vehicles that transport the semiconductor wafers. Those wafers consist of mono-crystalline silicon ingot.

“The tracks snake along the ceiling of the factory’s clean room, where workers wear white hazmat-like suits to prevent any outside particles from contaminating the wafers. The factory ferries 4.2 million wafers throughout the plant each day to be processed, using what it calls an Automated Material Handling System.

