



Cross-section of a Floor Dial system

The microcontroller uses signals from the floor latches to determine the position of the three supported walls around the middle axle. In return, the microcontroller may rotate a supporting wall structure to the desired location.

The whole floor dial system is a globally asynchronous locally synchronous system (GALS) where each of the five microcontrollers (for each floor rotary) is controlled through a NIOS development board. There will be customized hardware, a local server, a remote user interface available via the network, and other processors to determine the floor plan best suiting the occasion.