

State	Bus (SCK-SDA)				Output	
	00	01	11	10		
0	9	6	0	1	00010	2
1	2	9	0	1	10000	16
2	2	3	9	4	01000	8
3	2	3	5	9	01000	8
4	2	9	0	4	01000	8
5	9	3	5	1	01000	8
6	7	6	0	9	00100	4
7	7	6	9	8	00100	4
8	7	9	0	8	00100	4
9	9	9	9	9	00001	1
Boarding Bus			Bus Enroute			

I2C Transition Primitive State Table

Legend

#	Stable State (Next State is same as current state)
#	Not Stable - Next State Machine goes into
#	Used for combining logic ... never reached
#	Data boards bus from master/slave

Note - The arrow shown above, illustrates the movement of a I2C "START-BIT" in the state table, when input transitions are properly interpreted.