CONFIDENTIAL

Table of Contents

1. Overv	view	1
1.1 Ov	verview	1
1.2 Fu	nction	1
1.2.1	Driver Function	
1.2.2	Transfer Speed	
1.2.3	Connected Device	2
1.3 Re	eference	5
1.3.1	Standards	5
1.3.2	Related Documents	5
1.4 Re	estrictions	6
1.5 No	otice	6
2. Termi	inology	7
3. Opera	nting Environment	8
-	ardware Environment	
	odule Configuration	
	ate Transition Diagram	
4. Exteri	nal Interface	14
4.1 De	evice Node	14
4.2 Ex	ternal Function	
4.2.1	open	
4.2.2	close	
4.2.3	read	
4.2.4	write	
4.2.5	ioctl(I2C_RDWR)	
4.2.6	ioctl(I2C_FUNCS)	20
4.2.7	ioctl(I2C_SLAVE)	20
4.2.8	ioctl(I2C_SMBUS)	21
4.2.9	i2c_new_probed_device	22
4.2.10	i2c_register_board_info	22
4.2.11	i2c_add_driver	23
4.2.12	i2c_del_driver	23
4.2.13	i2c_master_send	24
4.2.14	i2c_master_recv	24
4.2.15	i2c_transfer	
4.2.16	i2c_get_functionality	
4.2.17	i2c_smbus_read_byte	28
4.2.18	i2c_smbus_write_byte	28
4.2.19	i2c_smbus_read_byte_data	29
4.2.20	i2c_smbus_write_byte_data	29
4.2.21	i2c_smbus_read_word_data	30
4.2.22	i2c_smbus_write_word_data	30
4.2.23	i2c_smbus_read_block_data	31
4.2.24	i2c_smbus_write_block_data	31
4.2.25	i2c_smbus_read_i2c_block_data	
4.2.26	i2c_smbus_write_i2c_block_data	
4.3 Str	ructure	
4.3.1	struct i2c_adapter	
4.3.2	struct i2c_client	34

CONFIDENTIAL

4.3.3 struct i2c_board_info 4.3.4 struct i2c_driver 4.3.5 struct i2c_msg 4.3.6 struct i2c_rdwr_ioctl_data 4.3.7 struct i2c_smbus_ioctl_data 4.3.8 union i2c_smbus_data 4.4 Global Variables and Constants 4.4.1 Global Variables 4.4.2 Global Constants 5. Integration 5.1 Directory Configuration
4.3.5 struct i2c_msg
4.3.6 struct i2c_rdwr_ioctl_data 4.3.7 struct i2c_smbus_ioctl_data 4.3.8 union i2c_smbus_data 4.4 Global Variables and Constants 4.4.1 Global Variables 4.4.2 Global Constants 5. Integration 5.1 Directory Configuration
4.3.8 union i2c_smbus_data 4.4 Global Variables and Constants 4.4.1 Global Variables 4.4.2 Global Constants 5. Integration 5.1 Directory Configuration
4.4 Global Variables and Constants 4.4.1 Global Variables 4.4.2 Global Constants 5. Integration 5.1 Directory Configuration
4.4.1 Global Variables
4.4.2 Global Constants5. Integration5.1 Directory Configuration
5. Integration
5.1 Directory Configuration
5.1 Directory Configuration
· ·
5.2 Integration Procedure
5.3 Option Setting
5.3.1 Module Parameters
5.3.1.1 DT
5.3.1.2 Multi-master
5.3.2 Kernel Parameters