4. Command Descriptions

This section describes each command in detail.

4.1 RF Commands

4.1.1 Get RF Channel

Command Number	11
Synopsis	[Command]
Parameters	None
Description	Returns current RF channel number.
Example	"11"

4.1.2 Set RF Channel

Command Number	12
Synopsis	[Command]
Parameters	None
Description	Sets the RF channel.
Examples	**802.11a/g/b** "12 11" sets the device to operate on a 20 MHz channel.

4.1.3 Get RF Data Rate

Command Number	13
Synopsis	[Command]
Parameters	Returns the current data rate. **802.11b data rates** 1 = 1 Mbps 2 = 2 Mbps 3 = 5.5 Mbps 4 = 11 Mbps (default) **802.11a/g data rates** 6 = 6 Mbps 7 = 9 Mbps 8 = 12 Mbps 9 = 18 Mbps 10 =24 Mbps 11 = 36 Mbps 12 = 48 Mbps 13 = 54 Mbps
Description	Gets RF data rate.
Examples	"**13**" gets the data rate.

4.1.4 Get Tx Power at PA

Command Number	15
Synopsis	[Command]
Parameters	None
Description	Gets the Tx power.
Example	"**15**"

4.1.5 Set Tx Power at PA

Command Number	16
Synopsis	16 (target power, correction, DACX) DAC extension should be used for all power levels >10 dBm.
Parameters	target power = expected power in dBm correction = correction of detector threshold DACX = extension of DAC (0 or 1)
Description	Sets the Tx power.
Example	"**16 0 14 0 0**"

4.1.6 Transmit Continuous Modulated Waveform Mode

Command Number		17 [enable dataRate]
Synopsis		[Command][Enable/Disable][Data Rate]
Parameters	Enable/Disable	**Enable/Disable** 0 = disable 1 = enable
	Data Rate	**802.11b data rates** 1 = 1 Mbps 2 = 2 Mbps 3 = 5.5 Mbps 4 = 11 Mbps (default) **802.11a/g data rates** 6 = 6 Mbps 7 = 9 Mbps 8 = 12 Mbps 9 = 18 Mbps 10 =24 Mbps 11 = 36 Mbps 12 = 48 Mbps 13 = 54 Mbps
Description		Sets the device for continuous transmission of a modulated waveform.
Examples		**802.11b** **"17 1 4"** sets the device for continuous transmission at an 11 Mbps data rate. **"17 0"** disables continuous transmission.
		802.11a/g **"17 1 6"** sets the device for continuous transmission at an 6 Mbps data rate. **"17 0"** disables continuous transmission.

4.1.7 Set Continuous Waveform Transmission Mode

Command Number	18
Synopsis	[Command][Enable/Disable]
Parameters	Enable/Disable 0 = disable 1 = enable
Description	Sets the device to continuously transmit a carrier waveform.
Example	**"18 1"** sets the device to continuously transmit a carrier waveform. **"18 0"** disables this mode.

4.1.8 Set Carrier Suppression Mode

Command Number	19
Synopsis	[Command][Enable/Disable]
Parameters	Enable/Disable 0 = disable 1 = enable
Description	Sets the device for carrier suppression transmission mode.
Example	"**19 1**" sets the device for carrier suppression transmission mode.

4.1.9 Set Channel and Power at Antenna with Calibration Data

Command Number	22
Synopsis	[Command][Channel][Power]
Parameters	**Channel** 1 = Channel 1 2 = Channel 2 3 = Channel 3 4 = Channel 4 5 = Channel 5 6 = Channel 6 7 = Channel 7 8 = Channel 8 9 = Channel 9 10 = Channel 10 11 = Channel 11 12 = Channel 12 13 = Channel 13 14 = Channel 14 **Power** RF power = 14 dBm (default)
Description	Sets the power using calibration data.
Example	"**22 6 14**" sets the channel to 6 and RF power to 14 dBm using calibration data for channel 6. If there is no EEPROM support, the command is as follows: "**22 6 14 cal_data_ext.conf**", where cal_data_ext.conf is a file generated by the calibration program. See Appendix B. "Sample cal_data_ext.conf" on page 50.

test_cal_data_conf

4.1.10 Set Duty Cycle Transmission Mode

Command Number		25
Synopsis		[Command][Enable][Data Rate]
Parameters	Enable	**Enable** 0 = disable 1 = enable
	Data Rate	**802.11b data rates** 1 = 1 Mbps 2 = 2 Mbps 3 = 5.5 Mbps 4 = 11 Mbps **802.11a/g data rates** 6 = 6 Mbps 7 = 9 Mbps 8 = 12 Mbps 9 = 18 Mbps 10 =24 Mbps 11 = 36 Mbps 12 = 48 Mbps 13 = 54 Mbps
Description		Sets the device to duty cycle transmit. The duty cycle is about 50% for lower date rates and decreases as the data rate increases.
Examples		**802.11b** "**25 1 4**" sets device to duty cycle transmit at 11 Mbps. "**25 1 3**" sets device to duty cycle transmit at 5.5 Mbps.
		802.11a/g "**25 1 4**" sets device to duty cycle transmit at 11 Mbps. "**25 1 13**" sets device to duty cycle transmit at 54 Mbps.

4.1.11 Set Power Mode

Command Number	26
Synopsis	[Command][Power Mode]
Parameters	**Power Mode** 0 = active 1 = power save mode (long) 4 = power save mode (short)
Description	Sets the power mode of the device. This command is not implemented yet.
Example	"**26 0**" sets device to active power mode.

Note

Set Power Mode is not implemented in v1.0.