

BUMBLEBEE PTX
PC Command Set

REVISION HISTORY

Revision	Description	Author	Date
A	Initial Release	Patrick Go	09-APR-2012
B	Added new command (05,00) used to request the device enter into the bootloader mode for firmware upgrade. Added new command (05,01) used to connect and disconnect the device from the PC.	Patrick Go	25-APR-2012
C	Added new command (05,02) used to query the firmware revision number. Added new command (05,03) used to query the codeplug revision number.	Patrick Go	01-MAY-2012

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SET/QUERY Command Format (sent from PC to PTX):

\$CMD,<R/W>,<Parameter Group ID>,<Parameter ID>,<Parameter Value>*CS#

REPLY Command Format (sent from PTX to PC - reply of the previous QUERY command):

+REPLY(<Parameter Group ID>,<Parameter ID>): <Parameter Value>

Command	Parameter Group ID	Parameter ID	Parameter Value	Parameter Default Value
Initialization Passed LED Blinking On Period	00	00	0 - 65535 milliseconds	100
Initialization Passed LED Blinking Off Period	00	01	0 - 65535 milliseconds	100
Initialization Passed Number of LED Blinking	00	02	0 - 255	10
Initialization Failed LED On Period	00	03	0 - 65535 seconds	20
Startup Delay	01	00	0 - 65535 seconds	10
Temperature Sampling Period	01	01	0 - 65535 seconds	10
Normal Reporting Period	02	00	0 - 65535 seconds	10
Violation Reporting Period	02	01	0 - 65535 seconds	5
Tag ID	02	02	0x00000000 - 0xFFFFFFFF	0x12345678
Group ID	02	03	0x0000 - 0xFFFF	0x9999
Maximum of RF Retries	03	00	0 - 255	3
RF Retry Delay	03	01	0 - 65535 milliseconds	500
RF Maximum Wait ACK Period	03	02	0 - 255 milliseconds	60
RF TX Output Power	03	03	0 (-30 dBm) 1 (-20 dBm) 2 (-15 dBm) 3 (-10 dBm) 4 (0 dBm) 5 (+5 dBm) 6 (+7 dBm)	4

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			7 (+10 dBm)	
RF TX/RX LED Blinking On Period	03	04	0 - 65535 milliseconds	50
RF TX/RX LED Blinking Off Period	03	05	0 - 65535 milliseconds	50
RF TX/RX Number of LED Blinking	03	06	0 - 255	2
RF Device Address	03	07	0 - 255	136
Maximum Wait Period To Process PC Command	04	00	0 - 255 seconds	15
Power Saving Mode	04	01	0 (DISABLE) or 1 (ENABLE)	1
Enter Bootloader Mode	05	00	0 or 1 - Write Only	
Connect/Disconnect Device	05	01	0 - DISCONNECT 1 - CONNECT	0
Firmware Revision Number	05	02	None - Read Only	-
Codeplug Revision Number	05	03	None - Read Only	-