AT Command Sets

The following is the AT command set for the local adaptor in the command mode

(that is, the local adaptor is in the disconnection state). All the commands and

parameters are case insensitive.

+++		Escape sequence with guard time. When the device is in Data mode, it can be forced back into Command mode while maintaining the connection to the remote device.
AT Command		Description
O		The command directs the device to switch from command mode to Online data mode. By the way, this command is used to enable/disable auto-connection feature in the master role.
	O	Switch from Command mode to Online Data mode.
	O0 (Default)	Automatically connect the adaptor to a device specified by "ATD" or any available device if "ATD=xxxxxxxxxxxx" is not executed.
	O1	Disable auto-connection feature. After it is executed, you need to execute "ATA" to manually connect a remote device.
	O?	Inquire the current setting.
A		This command is used to establish a connection. It is available only when the adaptor is in the master role.
	A	Connect the adaptor to a specified Bluetooth device. It is available only when "ATD=xxxxxxxxxxxx" is executed.
	A1-A8	Connect the adaptor to a Bluetooth device in the neighborhood found through "ATF?"
B		This command is used to display the Bluetooth address of the local adaptor.
	B?	Inquire the Bluetooth address of the local adaptor.
C		This command enable or disable flow control signals (CTS/RTS) of the UART port. Or enable handshake control. Note, the setting is not affected by ATZ0
	C0	Disable flow control.
	C1 (Default)	Enable flow control.
	C2	Enable handshake control as DTE role.
	C3	Enable handshake control as DCE role.
	C?	Inquire the current setting
D		For security purpose, this command is used to specify a unique remote Bluetooth serial adaptor to be connected. In the master role, the adaptor pairs and connects with the designated remote slave address. If the adaptor is in the slave mode, this command is a filter condition to accept the inquiry of the master device.

	D=xxxxxxxxxxxx	"xxxx-xx-xxxxxx" is a string of 12 hexadecimal digits.	
	D0	Restore the status in which the adaptor can connect with any remote address.	
	D?	Inquiry the designated address that can be paired and connected.	
E		This command is used to specify whether the adaptor echoes characters received from the UART back to the DTE/DCE.	
	E0	Command characters received from the UART are not echoed back to the DTE/DCE.	
	E1 (default)	Command characters received from the UART are echoed back to the DTE/DCE.	
	E?	Inquire the current setting.	
F		This command is used to search for any Bluetooth device in the neighborhood within one minute. If any device is found, its name and address will be listed. The search ends with a message "Inquiry ends. xx device(s) found." This command is available only when the adaptor is in the master role.	
	F?	Inquire Bluetooth devices in the neighborhood, listing 8 devices the maximum	
H		This command can drop the connection either master or slave role. By the way, it is used to specify whether the adaptor can be discovered or connected by remote devices.	
	H	Drop current connection.	
	H0	The adaptor enters the undiscoverable mode. If a pair has been made, the original connection can be resumed. But other remote master device cannot discover this adaptor.	
	H1 (default)	The adaptor enters the discoverable mode.	
	H?	Inquire the current setting.	
I		This command is used to inquiry Information.	
	I0	Inquire the firmware version codes.	
	I1	List all setting value.	
	I2	After connection, enter command mode then inquire Link quality or RSSI information.	
K		This command is used to specify one or two stop bits of COM port.	
	K0(default)	One stop bit.	
	K1	Two stop bits.	
	K?	Inquire the current setting.	
L		This command is used to specify the baud rate of COM port.	
	L0	4800 bps	
	L1	9600 bps	

	L2 (default)	19200 bps
	L3	38400 bps
	L4	57600 bps
	L5	115200 bps
	L6	230.4 Kbps
	L?	Inquire the current baud rate.
M		This command is used to specify parity bit setting of COM port.
	M0(default)	None parity bit.
	M1	Odd parity.
	M2	Even parity
	M?	Inquire the current setting.
N		This command is used to specify a name for the adaptor. You can specify a friendly name using 0 to 9, A to Z, a to z, space and –, which are all valid characters. Note that "first space or -, last space or – isn't permitted". The default name is "Serial Adaptor".
	N=xxxxxx	"xxxxxx" is a character string with a maximal length of 16.
	N?	Inquire the name of the local adaptor.
P		This command is used to specify a PIN. The default PIN is "1234". Paired adaptors should have a same PIN.
	P=xxxxxxx	"xxxx" is a 4~8-digit string.
	P0	Cancel authentication by PIN.
	P?	Inquire the current PIN.
Q		The command is used to decide whether result messages are prompted when AT commands are executed. The result messages are: OK/ERROR for command execution, or CONNECT/DISCONNECT for connection status.
	Q0 (default)	Prompt result messages.
	Q1	Not prompt result messages.
	Q?	Inquire the current setting.
R		This command is used to specify whether the adaptor is in the master or slave role. If the device role is changed, the adaptor will reboot and all paired addresses will be cleared.
	R0	Set the adaptor to the master role.
	R1 (default)	Set the adaptor to the slave role.

	R?	Inquire the current role of the adaptor.
S		This command is used to enable or disable RS232 driver auto power saving.
	S0 (default)	Disable RS232 force on (auto powerdown).
	S1	Enable RS232 force on.
	S?	Inquire the current setting.
X		This command is used to enable or disable Escape sequence.
	X0 (default)	Disable Escape sequence.
	X1 (default)	Enable Escape sequence.
	X?	Inquire the current setting.
Z		This command is used to restore the default settings and originate a warm start.
	Z0	Restore the default settings (e.g. 19200 bps).