

## InfoWave Command Set

Version : C0  
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### Introduction:

The following tables (Tables 1 to 4) list the commands and command responses for InfoWave. You can issue these commands from a terminal emulation program, such as HyperTerminal, to perform various tasks.

There are two response modes, set by WME command. The two modes are numerical response mode, which is intended for programmers to use, and the text response mode, which is for ordinary users.

### Command List:

<b>Command</b>	<b>Description</b>
WMBx	Set up the default baud rate. x=1 : 115200 , 2 : 57600 , 3 : 38400 , 4 : 19200 , 5 : 9600.
WMD	Disconnect the radio link established previously.
WME <sub>x</sub>	Set up echo and response function. x= 'A' ~ 'P'. For detailed definition, see Table 2.
WMF <sub>xxxx</sub>	Set up the maximum frame length. xxxx must be at most a 4-digit decimal number and ranging from 1 to 1024.
WMI <sub>xxxxxx</sub>	Set up the group identification code. xxxxxx must be exactly a 6-digit hexadecimal number. The group ID is used to ensure that each connection within the group can be created successfully only if the group ID is the same.
WMJ <sub>xxx...</sub>	Change the identification name to xxx.... The length of xxx... cannot exceed 32 letters.
WML	List current setting. The format is as follows: Version=WAVE85.VB2 Date=03-07-1997 PN=B386A45E5F670D4848BECE1A1A917D9C ID=010203 My Address=2 Maximum Frame Length=512 Echo=ON Response=ON Type of RS232 Port=DCE Radio Rx Destination=Async. RS-232 Port Current Baud Rate=115200 Default Baud Rate=115200 Wireless Link=Disconnected Identification Name=INNOMEDIA TECHNOLOGY INC .

WMMxxx	Set up my address. xxx must be at most a 3-digit decimal number and ranging from 1 to 255.
WMN	From command mode return to data mode.
WMOxxx...	Set up the partner PN code when creating wireless link. xxx... must be exactly a 32-digit hexadecimal number.
WMPxxx...	Set up own PN codes. xxx... must be exactly a 32-digit hexadecimal number.
WMQx	Query remote setting.
WMRx	Set up the remote output destination. x=P : printer port, x=R : RS-232 port.
WMSxxx	Create a radio link with the partner addressed by xxx. Xxx must be at most a 3-digit decimal number and ranging from 1 to 255. After establishing the link, the async. interface will enter data transmission mode until receiving ESCAPE sequence. The ESCAPE sequence consists of three contiguous ' ' characters and a <CR>. After the reception of ESCAPE sequence, the async. interface will re-enter into command mode.
WMVx	Set virtual COM mode. x='0' Tx not duplicate Vcom status head (EEh) and Rx not detect Vcom status head (EEh) . x='1' Tx not duplicate Vcom status head (EEh) and Rx detect Vcom status head (EEh). x='2' Tx duplicate Vcom status head (EEh) and Rx not detect Vcom status head (EEh). x='3' Tx duplicate Vcom status head (EEh) and Rx detect Vcom status head (EEh).
followed by <CR> key	From data mode escape to command mode. A delay of 100 ms is needed between the return and any following data input.

Notice :

1. The command could be entered in low or upper case.
2. The timing of Escape sequence is shown below :

'|' t1 '|' t1 '|' t2 <CR> t3 'WM command'

where t1 must be less than 500 ms, t2 must be between 100ms and 800 ms, t3 must be at least 100 ms.

Table 1. The Command Set Summary Used by the Asynchronous Interface

**Various WMEx Commands:**

	Save the WMEx Setting to EEPROM	Echo	Response or not	0: Text Response 1: Numerical Response
WMEA	0	0	0	-
WMEB	0	0	1	0
WMEC	0	0	1	1
WMED	0	1	0	-
WMEE	0	1	0	-
WMEF	0	1	1	0
WMEG	0	1	1	1
WMEH	1	0	0	-
WMEI	1	0	0	-
WMEJ	1	0	1	0
WMEK	1	0	1	1
WMEL	1	1	0	-
WMEM	1	1	0	-
WMEN	1	1	1	0
WMEO	1	1	1	1
WMEP	restore previous setting			

Table 2. The Definition of WME Command  
1 = Enable , 0 = Disable

**Numerical Response of WML Commands:**

	Length (byte)	Type
Version	12	ASCII
Date	4	Hex
Name	32	ASCII
PN code	16	Hex
ID	3	Hex
My Address	1	Hex
Max frame length	2	Hex
Baud rate	1	ASCII
Default baud rate	1	ASCII
Configuration	1	Hex

Table 3. The Data Structure of Numerical Response of WML Command

**Command Responses:**

	<b>Command</b>	<b>Condition</b>	<b>Numerical Response</b>	<b>Text Response</b>
1	WMB		“x”	“x” “OK”
	WMBx		“0”	“OK”
2	WMD	Connected	“0”	pause “Disconnected !” “OK”
	WMD	Disconnected	“0”	“Disconnected !” “OK”
3	WME		“x”	“x” “OK”
	WMEx		“0”	“OK”
4	WMF		“4x”	“4x” “OK”
	WMFx	Connected	“3”	“Can not set maximum frame length when connected.”
	WMFx	Disconnected	“0”	“OK”
5	WMI		“6x”	“6x” “OK”
	WMIx	Connected	“4”	“Can not set group ID when connected .” ”OK”
	WMIx	Disconnected	“0”	“OK”
6	WMJ		“32x”	“32x” “OK”
	WMJx		“0”	“OK”
7	WML		See Table 3	“Version=WAVE85.VB2” “Date=03-07-1997” “PN=B386A45E5F670D4848BECE1A1A917D9C” “ID=010203” “My Address=2” “Maximum Frame Length=512” “Echo=ON” “Response=ON” “Type of RS232 Port=DCE” “Radio Rx Destination=Async. RS-232 Port” “Current Baud Rate=115200”

				“Default Baud Rate=115200” “Wireless Link=Disconnected” “Identification Name=INNOMEDIA ....” “OK”
8	WMM		“x”	“x” “OK”
	WMMx	Connected	“6”	“Can not set My address when connected.” “OK”
	WMMx	Disconnected	“0”	“OK”
9	WMN	Connected	“0”	“OK”
	WMN	Disconnect	“7”	“No Connection !” “OK”
10	WMO		“32x”	“32x” “OK”
	WMOx		“0”	“OK”
11	WMP		“32x”	“32x” “OK”
	WMPx	Connected	“9”	“Can not set PN code when connected.” “OK”
	WMPx	Disconnected	“0”	“OK”
12	WMQ	Connected	See Table 3	See Table 3 “OK”
	WMQ	Disconnected	“7”	“NO Connection !” “OK”
	WMQ	Not ready	“P”	“Not ready.” “OK”
13	WMS	Disconnected	0x0 (one-byte binary number)	“Disconnected !” “OK”
	WMS or WMSy	Connected with x (x is the current partner)	x (one-byte binary number)	“Connected with address x” “OK”
	WMSx	Create new wireless link and it is successful	“0”	“Connecting.....” pause “Connect to Address x” enter data mode
	WMSx	Create new wireless link but partner not found	“D”	“Connecting.....” pause “Partner Not Found !” “Disconnected !”

				“OK”
	WMSx	Create new wireless link but partner is busy	“E”	“Connecting.....” pause “Partner Busy !” “Disconnected !” “OK”
14	WMV	DCE mode	“x”	“x” “OK”
	WMVx	DCE mode	“0”	“OK”
15	Invalid command		“Z”	“WM_ERROR”
16	“     “ <cr> escape sequence	Data mode	0x20,0x08, 0x20,0x20, 0x08,0x08,“OK”,0x0D, 0x0A	0x20,0x08,0x20,0x20,0x08,0x08,“OK” ,0x0D,0x0A

Table 4. Command Responses

Notice :

1. “x” , “2x”, “3x”, and “4x” are the response of current status/state/argument. “2x” means it is 2-byte ASCII characters, “3x” means 3-byte ASCII characters, and so on.
2. The strings enclosed by “” are ASCII characters. In contrast, the number prefixed by 0x is a binary number.

