

Wintecronics Co., Ltd.
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# WBT-201 command protocol

Device	Function	Command	Distribution				
mode							
SET parameter to device							
Command	Change device	@AL,07,01,Device name	Length of Device name				
Mode	name		=< 20 character				
	Change device	@AL,07,02,Device Information	Length of Device info.				
	information		=< 20 character				
	Set Auto Sleep	@AL,01,01,X	X: 0~3600 sec				
	counter value						
	Set Over Speed	@AL,01,02,X	X: 0~3600 km/hr				
	limit value						
	Clear all log	@AL,05,06					
	data						
	Cancel Read log	@AL					
	Read log	@AL,05,03,LogStartAddress	LogStartAddress:0~4095				
		Set LOG Mode parameter					
Command	Set LOG Mode	@AL,06,01,LogMode	LogMode:				
Mode			0: disable LOG				
			1:by Heading change				
			2:by Speed Change				
			3:by Time Interval				
			4:by distance Interval				
			5:Mix (Distance &				
			Time)				
	Set limit high	@AL,06,03,X	X:101~65535 km/hr				
	speed						
	Set limit low	@AL,06,02,X	X:0~20 km/hr				
	speed						
	Set low speed	@AL,06,05,X	X:0(& > limit low				
			speed)~255( & < middle				
			speed ) km/hr				
	Set middle	@AL,06,06,X	X:0~255( & < high				
	speed		speed ) km/hr				
	Set high speed	@AL,06,07,X	X:0~255( & < limit high				
			speed ) km/hr				



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	Set heading	@AL,06,04,X	X:1~90 degree
	mode interval		
	Set time mode	@AL,06,13,X	X:1~65535 sec
	interval		
	Set distance	@AL,06,14,X	X:1~65535 meter
	mode interval		
	Set speed mode	@AL,06,09,X	X:1~255 sec
	time interval of		
	Low limit ~		
	Low		
	Set speed mode	@AL,06,10,X	X:1~255 sec
	time interval of		
	Low ~ Middle		
	Set speed mode	@AL,06,11,X	X:1~255 sec
	time interval of		
	Middle ~ High		
	Set speed mode	@AL,06,12,X	X:1~255 sec
	time interval of		
	High ~ High		
	Limit		
		Login	
Command	Login	@AL,'1'X	'1': character '1'
Mode	(password)	@AL	X: key in password
			(4 number)
	Login	@AL,	
	(No-pasword)	@AL	
		GPS Setting	
Bypass	Cold Start	B5,62,06,04,04,00,FF,07,02,00,16,79	12 unsigned char
Mode			( hexadecimal )
	Warm Start	B5,62,06,04,04,00,01,00,02,00,11,6C	12 unsigned char
			( hexadecimal )
	Hot Start	B5,62,06,04,04,00,00,00,02,00,10,68	12 unsigned char
			( hexadecimal )
		Switch different mode	
	Entry to Bypass	@AL,02,01	
	Mode		
	Entry to	@AL	
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<u>Willeless</u>	electronics	nepin www.inconconic	w E-mail:sales_gps@wintec.com.tw
	Command Mode		
	GET	setting parameter from d	evice
Command	Get device name	@AL,07,01	Length of Device name
Mode			=< 20 character
	GET device	@AL,07,02	Length of Device info.
	information		=< 20 character
	GET Log Start	@AL,05,01	
	Address		
	GET Log End	@AL,05,02	
	Address		
	GET Log Start	@AL,05,09	Min. Log Start Address
	Area		
	GET Log End	@AL,05,10	Max. Log End Address
	Area		
	GET Auto Sleep	@AL,01,01	
	counter value		
	GET Over	@AL,01,02	
	Speed limit		
	value		
		Get LOG Mode parameter	
Command	GET LOG Mode	@AL,06,01	
Mode	GET limit high	@AL,06,03	
	speed		
	GET limit low	@AL,06,02	
	speed		
	GET low speed	@AL,06,05	
	GET middle	@AL,06,06	
	speed		
	GET high speed	@AL,06,07	
	GET heading	@AL,06,04	
	mode interval		
	GET time mode	@AL,06,13	
	interval		
	GET distance	@AL,06,14	
	mode interval		
	GET speed	@AL,06,09	
	mode time		
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 010011011100	-		_	
interval of				
Low limit ~				
Low				
GET speed	@AL,06,10			
mode time				
interval of				
Low ~ Middle				
GET speed	@AL,06,11			
mode time				
interval of				
Middle ~ High				
GET speed	@AL,06,12			
mode time				
interval of				
High ~ High				
Limit				
other				
GET hardware	@AL,08,01			
version				
GET softdware	@AL,08,02			
version				
GET LOG	@AL,08,03			
version				

## Read LOG produce:

- 1. Get LOG start address, LOG end address, LOG start area, LOG end area.
- 2. Calculate total log capacity (byte); total log point = total log capacity/16.
- 3. If total log capacity smaller than 4096, means that log data not full a section (4096kB) of memory. => readIndex=readCNT= total log capacity; else readIndex=readCNT=4096. Current\_LOG\_Point= LOG start address. Open one template .tk1 file.
- 4. Send read log command (Current\_LOG\_Point ) to WBT201.
- 5. Read log data from comport that connect with WBT201 (read readIndex bytes one time); if more than 3 sec, not get any data, please check whether login or not. If not please login first. If already login please exit or re-send read log command (Current\_LOG\_Point) to WBT201 and repeat step 5.
- 6. If step 5 is finish, continue read check sum (1 unsigned char) (this section) from



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- comport, then check the value and the check sum that calculate by receiver data (xor all receiver data) whether the same or not. If the same go to step 7; If not the same, re-send read log command (Current\_LOG\_Point) and repeat step 5, 6.
- 7. Finish step 6; Write all receiver data to template tk1 file. Calculate total check sum (2 unsigned char: CKA and CKB); CKA =(CKA xor all receiver data), CKB=(CKB xor CKA);
  - Then let Current\_LOG\_Point= Current\_LOG\_Point +4096;
    If (( Current\_LOG\_Point) > LOG end area), Current\_LOG\_Point = LOG start area. And check If (Current\_LOG\_Point < LOG end address) & ((Current\_LOG\_Point +4096)>= LOG end address) means that is the last section, readIndex=readCNT = (LOG end address -G\_CurrentSectionPoint); otherwise readIndex=readCNT =4096; send read log command (Current\_LOG\_Point).
- 8. Repeat step 5~7, until read down all log data.