- The way taxi meter exchange data with external equipment adopts async. Serial communication, it uses HEX coding, ASCII characters and BIG5 characters
- Taxi meter only one way transmit data to external equipment through the key operation of the taxi meter
- Uses the RS-232 signal level to transmit data, the setting is as: Baud Rate= 115,200 bps ' Stop bit= 1 ' Data bits=8 ' Parity Bit= N
- When Char[] is not full, fill it by null
- 1.2 Communication protocol
- Transmit the control command set

Abbreviat	HEX Coding	Function		
STX	02h	Start of the characters		
ETX	03h	Stop of the characters		
DLE	10h	Transmission end		

· Taxi meter output command format

STX (02h)	Command	Len	Data	ETX (03h)	DLE
1 byte	1 byte	4 byte	n byte	1 byte	1 byte

1.3 Taxi meter output data format

• Data format

UInt16 means unsigned integer ranges from 0 to 65,535 , 2 byte;

UInt32 means unsigned integer ranges from 0 to 4,294,967,295, 4 byte;

Char means character , 1 byte; English expressed as ASCII, Chinese expressed as BIG5

Float means the floating value, 4 byte

Data Output Command: Clh							
Description: after pressing "VACANCY" button, output the last occupation record every second							
Address	Attribute	Format	Unit	Description			
0003	Date/Time	UInt32		Unix-time			
0411	Meter Serial Number	Char[8]		Serial number for tracker (if 6 digits, fill first 3237, leave 3839 blank			
1215	Passenger On Board Time	UInt32		Unix-time			
1619	Passenger Exit Time	UInt32		Unix-time			
2023	Passenger Travel Distance	UInt32	METER				
2425	Passenger Travel Time	UInt16	SECOND	The time difference between passenger exit time and passenger on board time			
2627	Passenger Wait Time	UInt16	SECOND	Passenger Wait Time for Receipt Printout			
2829	Total Fare (16bit)	UInt16	Baht	Total fare for Receipt Printout			
3031	Car Speed	UInt16	KM/HR	Instant car speed			
3235	Passenger On Board Longitude (East Longitude)	Float		NC			
3639	Passenger On Board Latitude (North Latitude)	Float		NC			
4043	Passenger Exit Longitude (East Longitude)	Float		NC			
4447	Passenger Exit Latitude (North Latitude)	Float		NC			
4855	Taxi Meter Device No.	Char[8]					
5659	Receipt No.	UInt32					
6063	Total Fare (32bit)	UInt32	Baht	Total fare for Receipt Printout (32bit Positive Integer)			
6479	Driver Identication No.	Char[16]					
8083	K Constant Setting in Taxi Meter	UInt32					
			•				
		Data	Output C	ommand: C2h			
	Description: After pres	sing "Occup	ied" buttor	n, output current status data every second			
Address	Attribute	Format	Unit	Description			
0003	Date/Time	UInt32		Unix-time			
0411	Meter Serial Number	Char[8]		Serial number for tracker (if 6 digits, fill first 3237, leave 3839 blank			
1213	Car Speed	UInt16	KM/HR	Instant car speed			
1419	TBD			Not defined yet			
2023	Current Passenger Travel Distance	UInt32	METER				
2425	Current Passenger Travel Time	UInt16	SECOND				
2627	Current Passenger Wait Time	UInt16	SECOND				
2829	Current Total Fare (16bit)	UInt16	Baht				
		Data	Output C	ommand: B4h			
	Description: After pressing "PRINT" button, output the	record dat	a of this tri	p (Output the record data of this trip while pressing "PRINT" button once)			
Address	Attribute	Format	Unit	Description			
0003	Date/Time	UInt32		Unix-time			
0411	Meter Serial Number	Char[8]		Serial number for tracker (if 6 digits, fill first 3237, leave 3839 blank			
1215	Passenger On Board Time	UInt32		Unix-time			
1619	Passenger Exit Time	UInt32		Unix-time			
2023	Passenger Travel Distance	UInt32	METER				
2425	Passenger Travel Time	UInt16	SECOND	The time difference between passenger exit time and passenger on board time			
2627	Passenger Wait Time	UInt16	SECOND	Passenger Wait Time for Receipt Printout			
2829	Total Fare (16bit)	UInt16	Baht	Total fare for Receipt Printout (Taiwan regulation)			
3031	Car Speed	UInt16	KM/HR	Instant car speed			
3235	Passenger On Board Longitude (East Longitude)	Float		NC			
3639	Passenger On Board Latitude (North Latitude)	Float		NC			
4043	Passenger Exit Longitude (East Longitude)	Float		NC			
4447	Passenger Exit Latitude (North Latitude)	Float		NC			
4855	Taxi Meter Device No.	Char[8]					
5659	Receipt No.	UInt32					
6063	Total Fare (32bit)	UInt32	Baht	Total fare for Receipt Printout (32bit Positive Integer)			
6479	Driver Identication No.	Char[16]					
8083	K Constant Setting in Taxi Meter	UInt32					
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