



Serial Commands Manual



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Introduction

This document describes the serial commands in ASCII equivalents for host parameter programming through UART/RS232/VCP interface. All commands can be sent via PC COM port using serial communication software.

Product Requirements

The following products, when programmed with the specified firmware, support serial commands operation via given interface:

Model	Firmware Version	Interface
MT6220R (rev1)	FM3-e-x.xx.CMD	RS232
MT6220R (rev2)	SM3-k-x.xx.CMD.E1	RS232
MT780	SM3-e-x.xx.CMD	UART
MT10	SM3-d-x.xx.CMD	UART
MT30	SM3-j-x.xx.CMD	UART
MT40(W)	SM3-k-x.xx.CMD	UART

**Note: Firmware version with suffix "CMD", or the "Command Mode" firmware, should be specified on your ordering information.*

Default Communication Protocols

Baud rate = 9600
Data Bits = 8
Parity = None
Stop Bit = 1
Handshaking = None
Flow Control Timeout = None
ACK/NAK = OFF
BCC = OFF



Packet Format

From Host to Scan Engine:

The following table shows the general packet format of serial commands sent from host to scan engine.

Initial Code	Order Code	State Code	Parameter	End Code
1 byte	4 bytes	2 bytes	(variable)	1 byte

Initial Code: Fixed, one ASCII character: { (ASCII 123, or HEX 0x7B)

Order Code: 4 bytes, operation code to identify the property of each command

State Code: 2 bytes, **RR**(Read operation) or **WT**(Write operation).

When State Code is **RR**, parameter is not needed.

When State Code is **WT**, parameter should be defined.

Parameter: Variable, specifies the detailed instruction of each command.

End Code: Fixed, one ASCII character: } (ASCII 125, or HEX 0x7D)

From Scan Engine to Host:

The following table shows the general packet format of response sent from scan engine to host:

Initial Code	Order Code	Division Code	Parameter	End Code
1 byte	4 bytes	1 byte	(variable)	1 byte

Initial Code: 1 byte, one fixed ASCII character: { (ASCII 123, or HEX 0x7B)

Order Code: 4 bytes, operation code to identify the property of each response

Division Code: 1 byte, one ASCII character: , (ASCII 44, or HEX 0x2C)

The purpose of this code is simply to divide the Order Code and the Parameter.

Parameter: Variable, specifies the detailed instruction of each command.

End Code: 1 byte, one fixed ASCII character: } (ASCII 125, or hex 0x7D)

Example1:

Host >> Scan Engine {MC03RR}
Scan Engine >> Host {MC03,0,0,0}

Example2:

Host >> Scan Engine {MC02WT0,0,1}
Scan Engine >> Host {MC02,OK}



Command Descriptions

General Commands

[Trigger Commands](#)

You can activate the scan engine with serial trigger commands. First, the scan engine must be set to Serial Trigger Mode by sending a serial command (see [Reading Mode](#)). Once the scan engine is in serial trigger mode, the trigger is activated by sending the following commands:

{ } (ASCII 123,32,125 or HEX 0x7B,0x20,0x7D)

The scan engine will keep scanning until a barcode is successful read, or until a pre-set timeout (see [LED Auto-Off Control](#)) has elapsed.

[Read All Parameters](#)

When below command is sent, the scan engine will return "{MALL,##}", which represents all of the current settings of the scan engine:

{MALLRR}

[Reset Scanner to Default](#)

When below command is sent to the scan engine, all settings will be reset to default, including communication protocols (9600, 8, N, 1)

{MDEFWT}

[Check Firmware Version](#)

When below command is sent to the scan engine, the scan engine will return a string of data that represents current firmware version.

{MVERRR}

[Store Parameter](#)

When below command is sent to the scan engine, all current settings will be permanently stored on the scan engine; power-off the scan engine will not erase the stored parameters.

{MCMDWT1}

[Reading Mode](#)

[No-Read Message Control](#)

[Trigger Application Control](#)

[Auto Sensing](#)

Property	Command	Option	Remark	Unsupported Models
Reading Mode	{MC01WT 1 }	0 Flash Mode 1 Trigger Mode 2 Toggle Mode 3 Test Mode 4 Continuous Mode 5 Continuous Auto Off Mode 6 Serial Trigger Mode 7 Auto Sensing Mode	Default : Trigger Mode	1,2,5: MT6220R
LED Auto-Off Control	{MC10WT 0 ,0,1,60,60,3,#32}	0 Disable 1 Enable	Default : Disable When enabled, LED illumination will automatically turn off after Send Time elapses. For Trigger/Toggle/Serial Trigger mode.	
No-Read Status	{MC09WT 0 ,#78,#111,#32,#82,#101,#97,#100}	0 Not send 1 Send	Default : Not send When enabled, a No-read message will be sent after Send Time elapses. Configurable after LED Auto-Off Control is enabled. For Trigger/Toggle/Serial Trigger mode.	
No-Read message	{MC09WT 0 ,#78,#111,#32,#82,#101,#97,#100}	Can be a string of up to 7 digits composed of alphanumeric characters (ASCII code) or control codes.	Default : No Read The message being sent after Send Time elapse. Configurable after No-Read Status is set as Send. For Trigger/Toggle/Serial Trigger mode.	
No-Read Timeout	{MC10WT 0 ,0,1,60,60,3,#32}	A number from 1~60.	Default : 3 sec The period of time before LED illumination being automatically turned off, or before no-read message being sent. Configurable when LED Auto-Off Control is Enable. For Trigger/Toggle/Serial Trigger mode.	
Trigger Application	{MC10WT 0 , 0 ,1,60,60,3,#32}	0 Off 1 On	Default : Off When enabled, the scanner can be controlled by hardware trigger signal. For Flash/Continuous/Test mode.	MT6220R
Identical Read Interval	{MC10WT 0 ,0,1,60,60,3,#32}	A number from 1~50 (MT10, MT780, MT40(W))	Default : 100 mS Timeout between identical consecutive decoding (100~5000 mS). For Flash/Continuous/Continuous Auto Off mode.	All models except for MT10, MT780, MT40(W).
		A number from 1~5 (Other models except for MT10, MT780, MT40(W))	Default : 1 sec Timeout between identical consecutive decoding (1~5 sec). For Flash/Continuous/Continuous Auto Off mode.	MT10 MT780 MT40(W)



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Flash Timeout	{MC10WT0,0,1,60,60,3,#32}	A number from 3~60.	Default : 60 sec The period of inactivity before LED starts flashing when scanner is set to Flash mode.	
LED Auto-Off Timeout	{MC10WT0,0,1,60,60,3,#32}	A number from 3~60.	Default : 60 sec The period of inactivity before LED automatically turns off when scanner is set to Continuous Auto Off mode.	MT6220R
Serial Trigger Character	{MC10WT0,0,1,60,60,3,#32}	Can be 0~1 digit of alphanumeric characters(ASCII code) or function codes.	Default : Space Upon receiving the Serial Trigger Character(default={ }), the LED will stay on until a successful decode.	
LED Color	{MC14WT4,3,30,1}	0 LED: G -> R -> G -> R 1 LED: R -> G -> R -> G 2 LED: G -> GR -> G -> GR 3 LED: R -> GR -> R -> GR 4 LED: GR 5 LED: G 6 LED: R	Default : LED:GR Bi-color LED light source settings for Auto Sensing models. For MT6220 only.	All models except for MT6220 (F/W:FM3-e-x.xx.CMD)
LED Auto-Off Timeout	{MC14WT4,3,30,1}	A number from 1~30.	Default : 3 sec The period of inactivity before LED turns off when scanner is set to Auto Sensing mode. For MT6220 only.	All models except for MT6220.
Identical Read Timeout	{MC14WT4,3,30,1}	A number from 3~30.	Default : 30 sec The timeout between two identical barcode read when the scanner is set to Auto Sensing mode. For MT6220 only.	All models except for MT6220.
Auto Sensing Range	{MC14WT4,3,30,1}	0 Short 1 Middle 2 Long	Default : Middle Configurable Infrared detection range for Auto Sensing mode. For MT6220 only.	All models except for MT6220.

[Code ID, Send Data Length & Label Type](#)

[Interblock Delay, Intercharacter Delay & Accuracy Adjustment](#)

[Preamble](#)

[Postamble](#)

[Terminator](#)

Property	Command	Option	Remark	Unsupported Models
Code ID	{MC02WT0,0,0}	0 Disable Code ID 1 Factory ID On 2 AIM ID On 3 Set ID On	Default : Disable Code ID Send Code ID before every output data.	
Send Data Length	{MC02WT0,0,0}	0 Off 1 On	Default : Off Send data length before every output data.	
Label Type	{MC02WT0,0,0}	0 Positive 1 Positive & Negative	Default : Positive Enable negative label barcode decodability.	
Interblock Delay	{MC03WT0,0,0}	0 0 ms 1 10 ms 2 50 ms	Default : 0 ms Time interval between every consecutive reads.	



		3 100 ms 4 200 ms 5 500 ms	
Intercharacter Delay	{MC03WT0,0,0}	0 140 us 1 500 us 2 1 ms 3 4 ms 4 16 ms	Default : 140 us Time interval between characters in an output data.
Accuracy Adjustment	{MC03WT0,0,0}	A number from 0~9.	Default : 0 Accuracy Adjustment assures a more reliable decoded output. The higher the value, the greater the accuracy. However it is inversely proportional to the decoding speed.
Preamble	{MC05WT0,#255~ ,#255}	0 Disable 1 Enable	Default : Disable
Preamble Data	{MC05WT0,#255,#255,#255,#255}	Can be a string up to 5 digits composed of alphanumeric characters (ASCII code) or control codes.	Default : Null Preamble is a prefix of up to 5 alphanumeric characters/control codes added to the beginning of an output data.
Postamble	{MC06WT0,#255~ ,#255}	0 Disable 1 Enable	Default : Disable
Postamble Data	{MC06WT0,#255,#255,#255,#255}	Can be a string up to 5 digits composed of alphanumeric characters (ASCII code) or control codes.	Default : Null Postamble is a suffix of up to 5 alphanumeric characters/function keys added to the end of an output data.
Terminator	{MC04WT#13,#10}	Can be a string up to 2 digits composed of alphanumeric characters (ASCII code) or control codes.	Default : CR+LF Ending character(s) of an output data (before Postamble)

Baud Rate, Data Length, Parity & Stop Bits

Handshaking, ACK/ NAK, Timeout & BCC character

Property	Command	Option	Remark	Unsupported Models
Baud Rate	{MC07WT4,1,0,0}	0 600 bps 1 1200 bps 2 2400 bps 3 4800 bps 4 9600 bps 5 19200 bps 6 38400 bps	Default : 9600 bps The number of times a signal in transmission changes state or varies.	0: MT780 MT6220R MT30 MT40(W)
Data Length	{MC07WT4,1,0,0}	0 7 bits 1 8 bits	Default : 8 bits The number of data bits of a frame in transmission.	
Parity	{MC07WT4,1,0,0}	0 None 1 Even 2 Odd 3 Space 4 Mark	Default : None Data Parity is a bit that is added at the end of the data bits to ensure the total number of "1" in a set of bits is even or odd.	
Stop Bits	{MC07WT4,1,0,0}	0 One 1 Two	Default : One The number of stop bit added to the end of data bits in transmission.	
Handshaking	{MC08WT0,0,1,0}	0 None 1 RTS enabled at Power up 2 RTS enabled in Communication	Default : None Handshaking (RTS) status.	



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ACK / NAK	{MC08WT0,0,1,0}	0 Off 1 On	Default : Off Once enabled, the scanner will emit 3 warning beeps (via external buzzer) if the host, after receiving engine 's barcode data, does not reply "ACK (0x06)" or "NAK (0x15)" after a configurable timeout (1 sec/3 sec/10 sec or unlimited). Scan engine will re-send barcode data if host replies "NAK (0x15)".
ACK / NAK Timeout	{MC08WT0,0,1,0}	0 Unlimited 1 1 sec 2 3 sec 3 10 sec	Default : 1 sec The configurable timeout that the scanner should wait before emitting 3 warning beeps when ACK / NAK is enabled.
BCC Character	{MC08WT0,0,1,0}	0 Disable 1 Enable	Default : Disable Block check character (BCC) is a character added to a transmission block to facilitate error detection.

[Command Receipt \(Ask State\)](#)

[Scanner Lock \(Pause\)](#)

[LED Illumination](#)

[Sleep/Beep Mode Control](#)

[Scan Rate Control](#)

Property	Command	Option	Remark	Unsupported Models
LED Illumination	{MLGTWT1}	0 Off 1 On	Default : On LED illumination during scanning operation.	
Scanner Lock (Pause)	{MSWSWT0}	0 Off 1 On	Default : Off A state where the scan engine is not able to receive any commands. After a power-up cycle, the scan engine will return to normal state.	
Command Receipt (Ask State)	{MASKWT1}	0 Not send 1 Send	Default : Send Status of acknowledgment (receipt of response) as part of the communication protocol.	
Sleep Mode	{MC11WT0}	0 Off 1 On	Default : Off When enabled, scanner will automatically enter Sleep Mode after a period of inactivity(sleep mode timeout.)	MT6220R
Sleep Mode Timeout (Minute)	{MC11WT,1,0}	A number from 0~60 (Minute)	Default : 1 minute and 0 second Sleep Mode timeout (10 sec ~ 60 min & 60 sec), the period of inactivity before scanner enters Sleep Mode.	MT6220R
Sleep Mode Timeout (Second)	{MC11WT,1,0}	A number from 0~60 (Minute)		MT6220R
Good Read LED	{MC13WT1,1,1}	0 Disable 1 Enable	Default : Enable Once enabled, the scanner's external indicator LED will turn on for every successful decode.	MT780



Good Read Beep	{MC13WT1,1,1}	0 Disable 1 Enable	Default : Enable Once enabled, the scanner will beep for every successful decode via external buzzer.	
Beep Tone	{MC13WT1,1,1}	0 2.0 KHz 1 2.7 KHz 2 4.0 KHz	Default : 2.7 KHz Scanner's external buzzer frequency.	
Fixed Scan Rate	{SCANWT0}	0 Off (Auto-adaptive) 1 On (Fixed Scan Rate)	Default : Off When enabled, the scanner's scan rate will be fixed at top speed. Reading distance may be reduced as a result.	MT780

Symbologies Commands

[Code 39 & Full ASCII C39](#)

[Code 32](#)

Property	Command	Option	Remark	Unsupported Models
Code 39 Status	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	0 Disable 1 Enable	Default : Enable Code 39 barcode symbology status.	
Check Digit (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	0 Off 1 On	Default : Off Code 39 Check Digit Verification status.	
Send CD (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Check Digit status in a decoded Code 39 output data.	
Start & Stop (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	0 Not send 1 Send	Default : Not send Status of Start and Stop characters in a decoded Code 39 output data.	
Min Length (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	A number from 1~99	Default : 1 The minimum length of barcode to be decoded.	
Max Length (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	A number from 1~99	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	Can be 0~2 digits of alphanumeric characters (ASCII code).	Default : Null The Code ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	
Full ASCII Code 39 Status	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	0 Disable 1 Enable	Default : Enable Full ASCII Code 39 barcode symbology status.	
Set Code ID (Full ASCII Code 39)	{MB01WT1,0,1,0,1,48,#255,#255,1,#255,#255}	Can be 0~2 digits of alphanumeric characters (ASCII code)	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	
Code32 Status	{MB02WT0,1,1,#255,#255}	0 Disable 1 Enable	Default : Disable Code 32 barcode symbology status.	
Code32 Leading	{MB02WT0,1,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Lead Digit of an output data.	
Code32 Tailing	{MB02WT0,1,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Last Digit of an output data.	
Set Code ID (Code 32)	{MB02WT0,1,1,#255,#255}	Can be 0~2 digits of alphanumeric characters (ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



Codabar

ABC / CX / Coupling

Property	Command	Option	Remark	Unsupported Models
Codabar Status	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 Disable 1 Enable	Default : Enable Codabar barcode symbology status.	
Check Digit (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 Off 1 On	Default : Off Codabar Check Digit Verification status.	
Send CD (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 Not send CD 1 Send CD	Default : Send CD Check Digit status in a decoded Codabar output data.	
Start & Stop (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 Not send 1 Send	Default : Send Status of Start and Stop characters in a decoded Codabar output data.	
Start & Stop type (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 ABCD / ABCD 1 abcd / abcd 2 ABCD / TN*E 3 abcd / tn*e	Default : ABCD / ABCD The format of Start and Stop characters in a decoded Codabar output data.	
CLSI-Format (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	0 Off 1 On	Default : Off Convert Codabar into CLSI format.	
Min Length (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Codabar)	{MB03WT1,0,1,1,0,0,6,4 8,#255, #255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The Code ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	
ABC / CX / Coupling- Codabar Adjacent required	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off Enabling this function will make the scanner to decode two barcodes of the given format in one read cycle.	
ABC-Codabar Status	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off ABC-Codabar barcode symbology status.	
ABC-Codabar insert data	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off Status of insert character between the two coupling data.	
ABC-Codabar insert character	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	Can be 0~1 digit of alphanumeric characters (ASCII code) or function codes.	Default : Null Insert character between the two coupling data.	
CX -Codabar Status	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off CX-Codabar barcode symbology status.	
CX -Codabar insert data	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off Insert character between the two coupling data.	
CX -Codabar insert character	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	Can be 0~1 digit of alphanumeric characters(ASCII code) or function codes.	Default : Null Insert character between the two coupling data.	
Codabar-Coupling Status	{MB04WT0,0,0,#255,0,0, #255, 0,0,#255}	0 Off 1 On	Default : Off Codabar-Coupling status. Once enabled, the scanner will read two	



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			adjacent Codabar barcodes at a time.	
Codabar-Coupling insert data	{MB04WT0,0,0,#255,0,0,#255,0,0,#255}	0 Off 1 On	Default : Off Status of insert character between the two coupling data.	
Codabar-Coupling insert character	{MB04WT0,0,0,#255,0,0,#255}	Can be 0~1 digit of alphanumeric characters(ASCII code) or function codes.	Default : Null Insert character between the two coupling data.	

Interleaved 2/5

Property	Command	Option	Remark	Unsupported Models
Interleaved 2/5 Status	{MB05WT1,0,1,0,6,48,#255,#255}	0 Disable 1 Enable	Default : Enable Interleaved 2/5 barcode symbology status.	
Check Digit (Interleaved 2/5)	{MB05WT1,0,1,0,6,48,#255,#255}	0 Off 1 On	Default : Off Interleaved 2/5 Check Digit Verification status	
Send CD (Interleaved 2/5)	{MB05WT1,0,1,0,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Check Digit status in a decoded Codabar output data.	
First / Last digit suppressed	{MB05WT1,0,1,0,6,48,#255,#255}	0 No digit suppressed 1 Last 2 First	Default : No digit suppressed Status of First and Last digit of an output data.	
Min Length (Interleaved 2/5)	{MB05WT1,0,1,0,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Interleaved 2/5)	{MB05WT1,0,1,0,6,48,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Interleaved 2/5)	{MB05WT1,0,1,0,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



Toshiba 2/5

Property	Command	Option	Remark	Unsupported Models
Toshiba 2/5 Status	{MB06WT 1 ,0,1,11,48,#255,#255}	0 Disable 1 Enable	Default : Enable Toshiba 2/5 barcode symbology status.	
Check Digit (Toshiba 2/5)	{MB06WT1, 0 ,1,11,48,#255,#255}	0 Off 1 On	Default : Off Toshiba 2/5 Check Digit Verification status.	
Send CD (Toshiba 2/5)	{MB06WT1,0, 1 ,11,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Toshiba 2/5 status in a decoded Codabar output data.	
Min Length (Toshiba 2/5)	{MB06WT1,0,1, 11 ,48,#255,#255}	A number from 1~99.	Default : 11 The minimum length of barcode to be decoded.	
Max Length (Toshiba 2/5)	{MB06WT1,0,1,11, 48 ,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Toshiba 2/5)	{MB06WT1,0,1,11,48, #255 ,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	

Standard(IATA) 2/5

Property	Command	Option	Remark	Unsupported Models
Standard 2/5 Status	{MB07WT 0 ,0,1,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable Standard 2/5 barcode symbology status.	
Check Digit (Standard 2/5)	{MB07WT0, 0 ,1,6,48,#255,#255}	0 Off 1 On	Default : Off Standard 2/5 Check Digit Verification status.	
Send CD (Standard 2/5)	{MB07WT0,0, 1 ,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Standard 2/5 status in a decoded Codabar output data.	
Min Length (Standard 2/5)	{MB07WT0,0,1, 6 ,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Standard 2/5)	{MB07WT0,0,1,6, 48 ,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Standard 2/5)	{MB07WT0,0,1,6,48, #255 ,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



Matrix 2/5

Property	Command	Option	Remark	Unsupported Models
Matrix 2/5 Status	{MB08WT0,0,1,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable Matrix 2/5 barcode symbology status.	
Check Digit (Matrix 2/5)	{MB08WT0,0,1,6,48,#255,#255}	0 Off 1 On	Default : Off Matrix 2/5 Check Digit Verification status.	
Send CD (Matrix 2/5)	{MB08WT0,0,1,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Check Digit status in a decoded Codabar output data.	
Min Length (Matrix 2/5)	{MB08WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Matrix 2/5)	{MB08WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Matrix 2/5)	{MB08WT0,0,1,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	

Industrial 2/5

Property	Command	Option	Remark	Unsupported Models
Industrial 2/5 Status	{MB09WT0,0,1,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable Industrial 2/5 barcode symbology status.	
Check Digit (Industrial 2/5)	{MB09WT0,0,1,6,48,#255,#255}	0 Off 1 On	Default : Off Industrial 2/5 Check Digit Verification status.	
Send CD (Industrial 2/5)	{MB09WT0,0,1,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Industrial 2/5 status in a decoded output data.	
Min Length (Industrial 2/5)	{MB09WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Industrial 2/5)	{MB09WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Industrial 2/5)	{MB09WT0,0,1,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



[Code 11 2/5](#)

Property	Command	Option	Remark	Unsupported Models
Code 11 2/5 Status	{MB10WT0,0,1,0,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable Code 11 2/5 barcode symbology status.	
Check Digit (Code 11 2/5)	{MB10WT0,0,1,0,6,48,#255,#255}	0 Off 1 On	Default : Off Code 11 2/5 Check Digit Verification status.	
Send CD (Code 11 2/5)	{MB10WT0,0,1,0,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD The number of Check Digit in a decoded Codabar output data.	
Code11 2/5 digits CD	{MB10WT0,0,1,0,6,48,#255,#255}	0 1 digit 1 2 digits	Default : 1 digit Check Digit status in a decoded Codabar output data.	
Min Length (Code 11 2/5)	{MB10WT0,0,1,0,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Code 11 2/5)	{MB10WT0,0,1,0,6,48,#255,#255}	A number from 1~99.	Default : 32 The maximum length of barcode to be decoded.	
Set Code ID (Code 11 2/5)	{MB10WT0,0,1,0,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	

[MSI Plessey](#)

[UK Plessey](#)

[Telepen](#)

Property	Command	Option	Remark	Unsupported Models
MSI Plessey Status	{MB11WT0,0,1,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable MSI Plessey barcode symbology status.	
Send CD (MSI Plessey)	{MB11WT0,0,1,6,48,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Status of Check Digit in an output data.	
MSI Plessey CDV mod10	{MB11WT0,0,1,6,48,#255,#255}	0 Mod-11 plus Mod-10 1 single 2 double	Default : single Check Digit format.	
Min Length (MSI Plessey)	{MB11WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (MSI Plessey)	{MB11WT0,0,1,6,48,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (MSI Plessey)	{MB11WT0,0,1,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	
UK Plessey Status	{MB12WT0,0,#255,#255}	0 Disable 1 Enable	Default : Disable UK Plessey barcode symbology status.	
Send CD (UK Plessey)	{MB12WT0,0,#255,#255}	0 Not send CD 1 Send CD	Default : Not send CD Status of Check Digit in an output data.	



Set Code ID (UK Plessey)	{MB12WT0,0,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.
Telepen Status	{MB13WT0,1,#255,#255}	0 Disable 1 Enable	Default : Disable Telepen barcode symbology status.
Telepen Code Output	{MB13WT0,1,#255,#255}	0 Number 1 ASCII	Default : ASCII Output data format.
Set Code ID (Telepen)	{MB13WT0,1,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.

EAN-13

Property	Command	Option	Remark	Unsupported Models
EAN-13 Status	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Disable 1 Enable	Default : Enable EAN-13 barcode symbology status.	
Lead digit (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Lead Digit in an output data.	
Send CD (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Status of Check Digit in an output data.	
ISBN (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Convert EAN-13 to ISBN format.	
ISSN (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Convert EAN-13 to ISSN format.	
ISMN (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Convert EAN-13 to ISMN format.	
Supplement_5 (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 5-digit supplement in an output data.	
Supplement_2 (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 2-digit supplement in an output data.	
Add_a_space (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Space status between EAN-13 and supplement.	
Addenda_required (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : On Only decodes the EAN-13 barcode with an add-on supplement.	
Set Code ID (EAN-13)	{MB14WT1,1,1,0,0,0,0,0,0,1,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



UPC-A

Property	Command	Option	Remark	Unsupported Models
UPC-A Status	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Disable 1 Enable	Default : Enable UPC-A barcode symbology status.	
Lead digit (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Lead Digit in an output data.	
Send CD (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Status of Check Digit in an output data.	
UPC-A expand to EAN-13	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Convert UPC-A to EAN-13.	
Supplement_5 (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 5-digit supplement in an output data.	
Supplement_2 (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 2-digit supplement in an output data.	
Add_a_space (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Space status between UPC-A and supplement.	
Addenda_required (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : On Only decodes the UPC-A barcode with an add-on supplement.	
Set Code ID (UPC-A)	{MB15WT1,1,1,0,0,0,0,1,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	

EAN-8

Property	Command	Option	Remark	Unsupported Models
EAN-8 Status	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Disable 1 Enable	Default : Enable EAN-8 barcode symbology status.	
Lead digit (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Lead Digit in an output data.	
Send CD (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Status of Check Digit in an output data.	
Supplement_5 (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 5-digit supplement in an output data.	
Supplement_2 (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 2-digit supplement in an output data.	
Add_a_space (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Space status between EAN-8 and supplement.	
Addenda_required (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	0 Off 1 On	Default : On Only decodes the EAN-8 barcode with an add-on supplement.	
Set Code ID (EAN-8)	{MB16WT1,1,1,0,0,0,1,#255,#255}	Can be 0~2 digits of alphanumeric characters (ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



UPC-E

Property	Command	Option	Remark	Unsupported Models
UPC-E Status	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Disable 1 Enable	Default : Enable UPC-E barcode symbology status.	
Lead digit (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Not send 1 Send	Default : Send Status of Lead Digit in an output data.	
Send CD (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Not send CD 1 Send CD	Default : Send CD Status of Check Digit in an output data.	
UPC-E0	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : On Decoding status of UPC-E barcode that begins with 0.	
UPC-E1	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Decoding status of UPC-E barcode that begins with 1.	
UPC-E expand to UPC-A	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Convert UPC-E to UPC-A.	
Supplement_5 (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 5-digit supplement in an output data.	
Supplement_2 (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Status of 2-digit supplement in an output data.	
Add_a_space (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : Off Space status between UPC-E and supplement.	
Addenda_required (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	0 Off 1 On	Default : On Only decodes the UPC-E barcode with an add-on supplement.	
Set Code ID (UPC-E)	{MB17WT1,1,1,1,0,0,0,0,0,1,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	

Code 93

Code 128

EAN-128

Property	Command	Option	Remark	Unsupported Models
Code 93 Status	{MB18WT0,6,48,#255,#255}	0 Disable 1 Enable	Default : Disable Code 93 barcode symbology status.	
Min Length (Code 93)	{MB18WT0,6,48,#255,#255}	A number from 1~99.	Default : 6 The minimum length of barcode to be decoded.	
Max Length (Code 93)	{MB18WT0,6,48,#255,#255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.	
Set Code ID (Code 93)	{MB18WT0,6,48,#255,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	



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Code 128 Status	{MB19WT 1 ,5,48,#255, #255}	0 Disable 1 Enable	Default : Enable Code 128 barcode symbology status.
Min Length (Code 128)	{MB19WT1, 5 ,48,#255, #255}	A number from 1~99.	Default : 5 The minimum length of barcode to be decoded.
Max Length (Code 128)	{MB19WT1,5, 48 ,#255, #255}	A number from 1~99.	Default : 48 The maximum length of barcode to be decoded.
Set Code ID (Code 128)	{MB19WT1,5,48, #255 , #255 }	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.
EAN-128 Status	{MB20WT 1 ,0,#255,#255, 5,#255}	0 Disable 1 Enable	Default : Enable EAN 128 barcode symbology status.
Set Code ID (EAN-128)	{MB20WT1,0,#255, #255 , 5 ,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.
EAN-128 FNC1	{MB20WT1, 0 ,#255,#255, 5,#255}	0 Not send 1 Send	Default : Not send FNC1 character status.
EAN-128 Customized FNC1 character	{MB20WT1,0, #255 ,#255, 5,#255}	Can be 0~1 digit of alphanumeric characters(ASCII code) or function code.	Default : Null FNC1 character.

[GS1 Data Bar](#)

[GS1 Data Bar -Limited](#)

[GS1 Data Bar -Expanded](#)

Property	Command	Option	Remark	Unsupported Models
GS1 Databar Status	{MB21WT 0 ,0,0,1,#255, #255}	0 Disable 1 Enable	Default : Disable GS1 GS1 Databar / Truncated barcode symbology status.	
Send CD (GS1 Databar)	{MB21WT0, 0 ,0,1,#255, #255}	0 Not send CD 1 Send CD	Default : Not send CD Check Digit status in an output data.	
Prefix number (GS1 Databar)	{MB21WT0,0, 0 ,1,#255, #255}	0 Off 1 On	Default : Off Status of Prefix number (01) in a decoded GS1 Databar barcode.	
Stacked (GS1 Databar)	{MB21WT0,0,0, 1 ,#255, #255}	0 Disable 1 Enable	Default : Enable GS1 GS1 Databar Stacked / Omnidirectional barcode symbology status.	
Set Code ID (GS1 Databar)	{MB21WT0,0,0,1, #255 , #255 }	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.	
Limited Status	{MB22WT 0 ,0,0,#255,#255, 55}	0 Disable 1 Enable	Default : Disable GS1 DataBar-Limited barcode symbology status.	
Send CD (Limited)	{MB22WT0, 0 ,0,#255,#255, 55}	0 Not send CD 1 Send CD	Default : Not send CD Check Digit status in an output data.	
Prefix number (Limited)	{MB22WT0,0, 0 ,#255,#255, 55}	0 Off 1 On	Default : Off Status of Prefix number (01) in a decoded GS1 Databar-Limited barcode.	
Set Code ID	{MB22WT0,0,0, #255 ,#255, 55}	Can be 0~2 digits of	Default : Null	



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(Limited)\	55 }	alphanumeric characters(ASCII code).	The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.
Expanded Status	{MB23WT0,1,1,74,#255,#255}	0 Disable 1 Enable	Default : Disable GS1 DataBar-Expanded barcode symbology status.
Stacked (Expanded)	{MB23WT0,1,1,74,#255,#255}	0 Disable 1 Enable	Default : Enable GS1 DataBar-Expanded Stacked barcode symbology status.
Min Length (Expanded)	{MB23WT0,1,1,74,#255,#255}	A number from 1~99.	Default : 1 The minimum length of barcode to be decoded.
Max Length (Expanded)	{MB23WT0,1,1,74,#255,#255}	A number from 1~99.	Default : 74 The maximum length of barcode to be decoded.
Set Code ID (Expanded)	{MB23WT0,1,1,74, #255 ,#255}	Can be 0~2 digits of alphanumeric characters(ASCII code).	Default : Null The ID shown at the beginning of an output data when Set ID (cf. Code ID) is enabled.

Appendix

Appendix 1 - ASCII Table

is displayed in decimal system

Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII	Dec	Hex	ASCII
00	00	NUL	32	20	SP	64	40	@	96	60	`
01	01	SOH	33	21	!	65	41	A	97	61	a
02	02	STX	34	22	"	66	42	B	98	62	b
03	03	ETX	35	23	#	67	43	C	99	63	c
04	04	EOT	36	24	\$	68	44	D	100	64	d
05	05	ENQ	37	25	%	69	45	E	101	65	e
06	06	ACK	38	26	&	70	46	F	102	66	f
07	07	BEL	39	27	'	71	47	G	103	67	g
08	08	BS	40	28	(	72	48	H	104	68	h
09	09	HT	41	29	)	73	49	I	105	69	i
10	0A	LF	42	2A	*	74	4A	J	106	6A	j
11	0B	VT	43	2B	+	75	4B	K	107	6B	k
12	0C	FF	44	2C	,	76	4C	L	108	6C	l
13	0D	CR	45	2D	-	77	4D	M	109	6D	m
14	0E	SO	46	2E	.	78	4E	N	110	6E	n
15	0F	SI	47	2F	/	79	4F	O	111	6F	o
16	10	DLE	48	30	0	80	50	P	112	70	p
17	11	DC1	49	31	1	81	51	Q	113	71	q
18	12	DC2	50	32	2	82	52	R	114	72	r
19	13	DC3	51	33	3	83	53	S	115	73	s
20	14	DC4	52	34	4	84	54	T	116	74	t
21	15	NAK	53	35	5	85	55	U	117	75	u
22	16	SYN	54	36	6	86	56	V	118	76	v
23	17	ETB	55	37	7	87	57	W	119	77	w
24	18	CAN	56	38	8	88	58	X	120	78	x
25	19	EM	57	39	9	89	59	Y	121	79	y
26	1A	SUB	58	3A	:	90	5A	Z	122	7A	z
27	1B	ESC	59	3B	;	91	5B	[	123	7B	{
28	1C	FS	60	3C	<	92	5C	\	124	7C	|
29	1D	GS	61	3D	=	93	5D	]	125	7D	}
30	1E	RS	62	3E	>	94	5E	^	126	7E	~
31	1F	US	63	3F	?	95	5F	_	127	7F	DEL



Appendix 2 - Symbologies Code ID Identifier

SYMBOLOGIES CODE IF IDENTIFIER					
Symbologies	Factory ID	AIM ID	Symbologies	Factory ID	AIM ID
EAN 128	T	]C1	MSI (MOD 10/CDV & send one CD)	O	]M0
Code 128	K	]C0	MSI (MOD 10/CDV & not send CD)		]M1
AIM-128		]C2	MSI (send two CD)		]M8
ISBT-128		]C4	MSI (disable CDV)		]M9
EAN (+2/+5 OFF, +2 ON, +5 ON)	S	]E4	Code 32	B	]X0
UPC-E (+2/+5 OFF)		]E0	Codabar	N	]F0
UPC-E (+2 ON)	E	]E3	Codabar (ABC Codabar)		]F1
UPC-E (+5 ON)		]E3	Codabar (CDV & send CD)		]F2
UPC-A (+2/+5 OFF)	A	]E0	Codabar (CDV & not send CD)		]F4
UPC-A (+2 ON)		]E3	UK Plessey	P	]P0
UPC-A (+5 ON)		]E3	Matrix 2 of 5	Y	]X0
EAN-13 (+2/+5 OFF)	F	]E0	Matrix 2 of 5 (disable CDV)		]X1
EAN-13 (+2 ON)		]E3	Matrix 2 of 5 (MOD 10/CDV & send one CD)		]X2
EAN-13 (+5 ON)		]E3	Matrix 2 of 5 (MOD 10/CDV & not send CD)		]X3
Code 93	L	]G0	ISBN		]X4
Code 11 (send one CD)	J	]H0	ISSN	]X5	
Code 11 (send two CD)		]H1	Full ASCII Code 39(disable CDV)	D	]A4
Code 11 (not send CD)		]H3	Full ASCII Code 39(CDV & send CD)		]A5
Code 11 (disable CDV)		]H9	Full ASCII Code 39(CDV & not send CD)		]A7
IATA 2 of 5 (disable CDV)	R	]R0	Standard Code 39 (disable CDV)	M	]A0
IATA 2 of 5 (MOD 10/send one CD)		]R8	Standard Code 39 (CDV and send CD)		]A1
IATA 2 of 5 (MOD 10/send one CD)		]R9	Standard Code 39 (CDV and not send CD)		]A3
Industrial 2 of 5	V	]S0	Databar (Stacked/Omnidirectional/Truncated)	G	]e0
PDF 417	Z	]L0	Databar Limited	C	



Version History

Rev.	Date	Description	Issued
1.0	2015.09.26	Initial Release	Annie
1.1	2015.10.27	Revised Buzzer and LED unsupported models (page 9)	Annie
1.2	2016.03.25	Added MT780	Shaw
1.3	2016.08.01	1. Added MT780(LR/HD) 2. Added MT10/MT30/MT40(W) 3. Renamed No-Read Message Control related functions	Shaw
1.4	2017.10.19	Updated Identical Read Interval	Shaw
1.5	2018.04.01	1. Updated Sleep Mode 2. Deleted EOL Models: MT700/MT710D/MT742(L)/MT752(L)/MT712LR-III	Shaw

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