2.0.0 2021 6

V2.0.0	2021.06	1 Micro PDF417,Standard 2 of 5,Plessey,ChinaPost 25,Code 16K,,Maxi Code,Aztec

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G 94

“ ”

“ ”

**

**

☞ **

WSM-QL1601 TTL-232 USB

USB-HID

TTL-232 / /USB-HID USB

HID & TTL

☞ 1 USB

☞ 2 USB 2 VID&PID

	0x152A	0x880F

HID-KBW 0x880

TTL TTL-232

RS-232

	TTL-232
Baud Rate	9600
(Parity Type)	None
(Data Bits)	8
(Stop Bits)	1

Baud Rate / bps: bits per second

1200bps

4800bps

**9600bps

14400bps

19200bps 38400bps

57600bps 115200bps

3

** (None)

(Odd Parity) (Even Parity)

HID 2

**HID-KBW HID-POS

HID-POS

input

Byte	7	6	5	4	3	2	1	0
0	ID=0x02							
1								
2	0x5d							
3	0x51							
4	0x31							
5-60								
61	0x51							
62	0x51							
63	0x01( )/0x0( )							

PC HID 1ms 64ms

**1ms

3ms

5ms

10ms

HID

1ms 63ms

**1ms

2ms

5ms

10ms

HID

1ms 63ms

**1ms

2ms

5ms

10ms

** CapsLock-Off

CapsLock-On

HID

Ctrl+Shift+r

**HID

HID

“

”

**

☞

☞

**

100ms 25500ms

1000ms

3000ms

**5000ms

10000ms

-

** -

☞ 1

☞ 2 TTL-232

0x0002 bit0

“1” “ ”

7E 00 08 01 00 02 01 AB CD

02 00 00 01 00 33 31

**

3.1.2

1000ms

50ms 50ms

0ms 25500ms 1000ms

200 ms

500ms

**1000ms

3000ms

5000ms

**

0ms 12700ms

☞ “ ”

500ms

1000ms

3000ms

5000ms

3.1.2

**

3.3.1

3.1.2

3.3.1

3.1.2

** -

-

-

-

/

-

** -

**

–

** –

–

“

”

“ ”

**

/

** _ _

** - -

12pin BEEP DLED

LED

** LED

LED

**

BEEP

30ms

**60ms

90ms

120ms

☞ GBK UNICODE Word

Q

F

/

PC

**

0x20 2

Ctrl

Alt

**

0x00~0x1F ASCII

HID Keyboard ASCII

“A <HT>F HT ” 16

0x41/0x09/0x46

“A” -- A

“Ctrl I” -- 0x09 “I” Ctrl

I Ctrl I

“F” -- F

“Ctrl I”

“A” “F

QL1601 Ctrl “

“Alt ” ALT+”

ASCII 10 “<HT>”

“Alt 0 9” -- Alt “0” “9”

Alt

0x20 ASCII

NUL	0	Null	Ctrl+@	
SOH	1	KeypadEnter	Ctrl+A	Select all
STX	2	CapsLock	Ctrl+B	Bold
ETX	3	ALT	Ctrl+C	Copy
EOT	4	Null	Ctrl+D	Bookmark
ENQ	5	CTRL	Ctrl+E	Center
ACK	6	Null	Ctrl+F	Find
BEL	7	Enter	Ctrl+G	
BS	8	LeftArrow	Ctrl+H	History
HT	9	Horizontal Tab	Ctrl+I	Italic
LF	0A	DownArrow	Ctrl+J	Justify
VT	0B	Vertical Tab	Ctrl+K	hyperlink

**

“0~9”

- ** -

+” “_” “*” “/”

-

**

-

-

**

-

/

**

**

**

HID-POS

ID

SN:

FID

MID

ID 64

WriteDeviceID:SN:xxxx;MID:xxxx;FID:xxxx.

Prefix

Suffix

Data

Code ID

RF

(Tail)

Prefix Code ID Data Suffix Tail

**

“ ” “ ”

☞ 15 16 16

F

**

“ ” “ ”

☞ 15 16 16

F

Code ID Code ID

Code ID ** Code ID

Code ID E

Code ID

Code ID

EAN13 Code ID

EAN8 Code ID

UPC-A Code ID

UPC-E0 Code ID

UPC-E1 Code ID

Code 128 Code ID

Code 39 Code ID

Code 93 Code ID

Codabar Code ID

Interleaved 2 of 5 Code ID

Industrial 25 Code ID

Matrix 2 of 5 Code ID

Code11 Code ID

MSI Plessey Code ID

RSS-14 Code ID

RSS Code ID

RSS Code ID

QR Code Code ID

Data Matrix Code ID

PDF417 Code ID

Micro QR Code ID

Code ID

Micro PDF417 Code ID

Standard 2 of 5 Code ID

Plessey Code ID

ChinaPost 25 Code ID

Code 16K Code ID

Maxi Code Code ID

Aztec Code ID

** CR 0x0D

TAB (0x09) CRLF 0x0D 0x0A

Data 3

Start Center End

** Data Start

End Center

“ ” “ ” Start

End Start End 255

F

Start

End

Read Fail RF

RF

/ RF

RF

** RF

“ ” “ ” RF

RF 16 15 16 F

RF

☞ 16

/

<03>< >< >

☞ UTF-8

**

GS 2012 GS

GS

ASCII 0x1D ASCII

QR GS ASCII 0x20-0x7E

1 “GS ”

2 “GS ”

3 GS 16 16 F

4 “ ”

GS **GS

“ ” “ ” GS

POS

POS

POS

&

/

**

/

EAN13/EAN8/UPC-A/UPC-E0/UPC-E1

**

QR

**

EAN13

** EAN13 EAN13

EAN13

EAN13 **EAN13

EAN13

EAN13-2 ** EAN13-2

EAN13-5

EAN8

**EAN8

EAN8

EAN8-2

** EAN8-2

EAN8-5

** EAN8-5

** EAN8

EAN8

UPC-A

** UPC-A

UPC-A

UPC-A

UPC-A

**UPC-A

UPC-A

UPC-A-2

** UPC-A-2

UPC-A-5

** UPC-A-5

/ UPC-A EAN13

UPC-A EAN13

** UPC-A EAN13

** UPC-A

UPC-A

UPC-E0

** UPC-E0

UPC-E0

UPC-E0

UPC-E0

**UPC-E0

UPC-E0

UPC-E0-2

** UPC-E0-2

UPC-E0-5

** UPC-E0-5

** UPC-E0

UPC-E0

UPC-E1

** UPC-E1

UPC-E1

UPC-E1

UPC-E1

**UPC-E1

UPC-E1

UPC-E1-2

** UPC-E1-2

UPC-E1-5

** UPC-E1-5

**

UPC-E1

UPC-E1

Code128

** Code128

Code128

Code128

**Code128 0

Code128 4

Code128 32

**Code128 255

Code128 (11)

Code128 (11) -

**Code128 (11) -

Code39

** Code39

Code39

Code39

**Code39 0

Code39 4

Code39 32

**Code39 255

Code39

Code39

**Code39

Code39

**Code39

Code39 Code32

Code32 ** Code32

Code32

**Code32 A Code32 A

Code39 FullAsc

FullAsc ** FullAsc

Code39

Code39 **Code39

Code39

Code39

**Code39

Code93

** Code93

Code93

Code93

**Code93 0

Code93 4

Code93 32

**Code93 255

CodaBar

** CodaBar

CodaBar

CodaBar

**CodaBar 0

CodaBar 4

CodaBar 32

**CodaBar 255

CodaBar

CodaBarT73 ( )11.4 ( )11.3 ( )]TJ2406Cpan74.64 Tm2 +XdEVCS1VE

Interleaved 2 of 5

Interleaved 2 of 5 ** Interleaved 2 of 5

Interleaved 2 of 5

Interleaved 2 of 5 0

**Interleaved 2 of 5 4

**Interleaved 2 of 5 32

Interleaved 2 of 5 255

Interleaved 2 of 5

Interleaved 2 of 5 Mod10

**Interleaved 2 of 5 NONE

Interleaved 2 of 5

Interleaved 2 of 5

**Interleaved 2 of 5

Industrial 25

Industrial 25

** Industrial 25

Industrial 25

Industrial 25 0

**Industrial 25 4

**Industrial 25 32

Industrial 25 255

Industrial 25

Industrial 25 Mod10 **Industrial 25 NONE

Industrial 25

Industrial 25 **Industrial 25

Matrix 2 of 5

Matrix 2 of 5 ** Matrix 2 of 5

Matrix 2 of 5 0

**Matrix 2 of 5 4

**Matrix 2 of 5 32

Matrix 2 of 5 255

Matrix 2 of 5

Matrix2 of 5 Mod 10

**Matrix 2 of 5 None

Matrix2 of 5

Matrix2 of 5

** Matrix2 of 5

Code11

Code11

** Code11

Code11

Code11 0

**Code11 4

**Code11 32

Code11 255

Code11

**Code11-1bit

Code11-2bit

Code11

Code11

** Code11

MSI Plessey

** MSI Plessey

MSI Plessey

MSI Plessey 0

**MSI Plessey 4

**MSI Plessey 32

MSI Plessey 255

MSI Plessey

**MSI Plessey MOD10

MSI Plessey MOD10

MSI Plessey

MSI Plessey

**MSI Plessey

RSS-14

RSS-14

** RSS-14

RSS-14 AI()

**RSS-14 AI

RSS-14 AI

RSS

RSS ** RSS

RSS AI()

RSS 0

** RSS 4

** RSS 32

RSS 255

RSS AI()

** RSS AI

RSS AI

Standard 2 of 5

** Standard 2 of 5

Standard 2 of 5

Standard 2 of 5 0

**Standard 2 of 5 4

**Standard 2 of 5 32

Standard 2 of 5 255

Standard 2 of 5

Standard 2 of 5

**Standard 2 of 5

MSI Plessey

Standard 2 of 5

**Standard 2 of 5

Plessey

** Plessey

Plessey

Plessey 0

**Plessey 4

**Plessey 32

Plessey 255

Plessey

Plessey

**Plessey

MSI Plessey

Plessey

**Plessey

ChinaPost 25

** ChinaPost 25

ChinaPost 25

ChinaPost 25 0

**ChinaPost 25 4

**ChinaPost 25 32

ChinaPost 25 255

ChinaPost 25

ChinaPost 25

** ChinaPost 25

MSI ChinaPost 25

ChinaPost 25

**ChinaPost 25

QR Code

** QR

QR

QR 1

QR 1- **QR 1-

QR (11)

QR (11) - **QR (11) -

Data Matrix

** DM DM

DM

DM ** DM

PDF417 Ä

** PDF417 PDF417

Micro QR

** Micro QR Micro QR

**

** Micro PDF 417 !P

**

Aztec

**

Aztec

“ ” “ ”

☞

QR QR

1.

G

2. “;”

3. 30

4. QR

00000000 02000003

03000000 -3000ms 0202001E Interleaved 2 of 5

070A0100

@WSM00000000;02000003;03000000;0202001E;070A0100;

☞

1. “

2.

0

1

2

3

4

5

6

7

8

9

A

B

C

D

E

F

1 DATA

1. “DATA” 16 44” “41” “54” “41”
2. “
3. “ ”
4. “4” “4” “4” “1” “5” “4” “4” “1”
5. “ ”

2 DATA

1. “DATA” 16 44” “41” “54” “41”
2. “
3. “ ”
4. “4” “4” “4” “1” “5” “4” “4” “1”
5. “ ”

3 EAN13 CODE ID “A”

1. “A” 16 “41”
2. “
3. “ EAN13 CODE ID”
4. “4” “1”
5. “ ”

4

Start “1234567890ABC” 10 “1234567890”

1. “10” 16 “0A”
2. “
3. “ Start ”
4. “0” “A”
5. “ ”
6. “ Start ”

5

End “1234567890ABC” 10 “1234567890”

1. “10” 16 “0A”
2. “
3. “ End ”
4. “0” “A”
5. “ ”
6. “ End ”

6

Center “1234567890ABC1234567890” 3 “ABC”

1. “10” 16 “0A”
2. “
3. “ End ”
4. “ “0A ”

4. “ ”

“

7. “0” “A”
8. “ ”
9. “ Center ”

7 RF “FAIL”

1. “FAIL” 16 “46” “41” “49” “4C”
2. “
3. “ RF ”
4. “4” “6” “4” “1” “4” “9” “4” “C”
5. “ ”

8 GS “D”

1. “D” 16 “44”
2. “
3. “GS ”
4. “GS ”
5. “4” “4”
6. “ ”

		USB-HID	
TTL-232		9600bps	
		8	
		1	
USB-HID	USB-HID	USB-KBW	
	PC HID	1ms	1 64ms
	HID	1ms	1 63ms
	HID	1ms	1 63ms
	CapsLock	Off	
	HID		
		5000ms	100ms 25500ms, 100ms 0
			:0-3276700ms 100ms
			7E 00 08 01 00 02 01 AB CD

		5000ms	100ms 25500ms 100ms 0x00
		1000ms	0 25500ms 100ms
			100ms 25500ms 100ms 0x00:
		5000ms	100ms 25500ms 100ms 0x00
		5000ms	100 25500ms 100ms 0x00
		1000ms	0 25500ms 100ms
			100ms 25500ms 100ms 0x00:

1/2:00-FF

		60ms	0-255ms
LED			
		GBK	
/			
HID			
		/	
CODE ID			
		CR 0x0D	
Data		Data	
RF			
GS			

		EAN13/EAN8/UPC-A/UPC-E0/UPC-E1
2		
5		
2		
5		
2		
5		
UPC-A EAN13		
2		
5		

2		
5		
	0	
	255	
(11)		
	0	
	255	
Code32		
Code32		Code32
FullAsc		
	0	
	255	

	0	
	255	
	4	
	32	
	None	
	4	
	32	
	None	
	4	
	32	
	None	
	4	
	32	
	1bit	

	4	
	32	
	Mod10	
AI		
AI		

	4	
	32	
1		
(11)		

	7E 00 08 0100 00 D4 FF 60	02 00 00 01 00 33 31
	7E 00 08 0100 00 D5 EF 41	02 00 00 01 00 33 31
	7E 00 08 0100 00 D6 DF 22	02 00 00 01 00 33 31
	7E 00 08 0100 00 D7 CF 03	02 00 00 01 00 33 31
	7E 00 08 01 00 02 01 02 DA	02 00 00 01 00 33 31
	7E 00 08 01 00 01 04 07 2C	02 00 00 01 00 33 31
	7E 00 08 01 00 01 84 96 A4	02 00 00 01 00 33 31
5s	7E 00 08 01 00 05 32 9D 7D	02 00 00 01 00 33 31
10s	7E 00 08 01 00 05 64 A7 4E	02 00 00 01 00 33 31
115200bps	7E 00 08 02 00 2A 1A 00 E4 7E	02 00 00 01 00 33 31
Flash	7E 00 09 01 00 00 00 DE C8	02 00 00 01 00 33 31
115200bps	7E 00 07 01 00 2A 02 D8 0F	02 00 00 02 1A 00 82 D8
	7E 00 09 01 00 00 FF C0 38	02 00 00 01 00 33 31
CRLF	7E 00 08 01 00 60 21 4B F0	02 00 00 01 00 33 31

	h	0xA6
Micro PDF417	R	0xA7
Standard 2 of 5	f	0xA8
Plessey	n	0xA9
ChinaPost 25	X	0xAA
Code 16K	X	0xAB
Code 49	X	0xAC
Maxi Code	x	0xAD
Aztec	z	0xAE

00	0	NUL (Null char.)
01	1	SOH (Start of Header)
02	2	STX (Start of Text)
03	3	ETX (End of Text)
04	4	EOT (End of Transmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (Horizontal Tab)
0a	10	LF (Line Feed)
0b	11	VT (Vertical Tab)
0c	12	FF (Form Feed)
0d	13	CR (Carriage Return)
0e	14	SO (Shift Out)
0f	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)

19	25	EM (End of Medium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (File Separator)
1d	29	GS (Group Separator)
1e	30	RS (Request to Send)
1f	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)

34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)

4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i

6a	106	j
6b	107	k
6c	108	l
6d	109	m
6e	110	n
6f	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/ Opening Brace)
7c	124	| (Vertical Bar)
7d	125	} (Right/Closing Brace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)

	00000000	
TTL-232	01000000	
USB-HID	01000001	
USB-232	01000002	
HID&TTL	01000003	
HID-KBW	01010000	
HID-POS	01010001	
1200bps	010209C4	
4800bps	01020271	
9600bps	01020139	
14400bps	010200D0	
19200bps	0102009C	
38400bps	0102004E	
57600bps	01020034	
115200bps	0102001A	
NONE	01030000	
ODD	01030001	
EVEN	01030002	
PC HID -1ms	01040001	
PC HID -3ms	01040003	
PC HID -5ms	01040005	
PC HID -10ms	0104000A	
HID -1ms	01050001	
HID -2ms	01050002	
HID -5ms	01050005	

HID -10ms	0105000A	
HID -1ms	01060001	
HID -2ms	01060002	
HID -5ms	01060005	
HID -10ms	0106000A	
CapsLock-Off	01070000	
CapsLock-On	01070001	
HID	01080000	
HID	01080001	
	02000000	
	02010000	
	02010001	
-1000ms	0202000A	
-3000ms	0202001E	
-5000ms	02020032	
-10000ms	02020064	
-	02020000	
	02000001	
	02000002	
	020A0001	
	020A0000	
	020A0010	
	020A0011	
-	02050000	
-500ms	02050005	
-1000ms	0205000A	
-3000ms	0205001E	

-5000ms	02050032	
	02060000	
	02060001	
-	02070000	
-500ms	02070005	
-1000ms	0207000A	
-3000ms	0207001E	
-5000ms	02070032	
	02000003	
	0209640A	
	020932A0	
	0209320A	
	02093205	
-0ms	02080000	
-100ms	02080001	
-400ms	02080004	
-1000ms	0208000A	
-2000ms	02080014	
	03000000	
-	03000001	
-	03000002	
-	03010000	
-	03010003	
-	03010001	
-	03010002	
	02030000	
	02030001	

-	04000000	
-	04000001	
	04010005	
-	04010000	
-	04010001	
-	04010002	
	04010006	
-	04010003	
-	04010004	
-	04020000	
-	04020001	
-	04030000	
-	04030001	
LED -	04040000	
LED -	04040001	
-	04040002	
-	04040003	
-30ms	0404011E	
-60ms	0404013C	
-90ms	0404015A	
-120ms	04040178	
-GBK	04050000	
-UTF8	04050001	
-	04050002	

-UNICODE

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UPCE1 CODE ID	05030004	
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CODE39 CODE ID	05030006	
CODE93 CODE ID	05030007	
CodaBar CODE ID	05030008	
Interleaved 2 of 5 CODE ID	05030009	
Industrial 25 CODE ID	0503000A	
Matrix 2 of 5 CODE ID	0503000B	
CODE11 CODE ID	0503000C	
MSI Plessey CODE ID	0503000D	
RSS CODE ID	0503000E	
RSS CODE ID	05030010	
RSS CODE ID	05030011	

QR CODE CODE ID	05030012	
DataMatrix CODE ID	05030013	
PDF417 CODE ID	05030014	
Micro QR CODE ID	05030015	
CODE ID	05030016	
Micro PDF417 CODE ID	05030017	
Standard 2 of 5 Code ID	05030018	
Plessey CODE ID	05030019	
ChinaPost 25 CODE ID	0503001A	
Code 16K CODE ID	0503001B	
Code 49 CODE ID	0503001C	
Maxi Code CODE ID	0503001D	
Aztec CODE ID	0503001E	
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End	05050002	
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Start	05050004	
End	05050005	
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GS	050A0002	
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EAN13	07014000	
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CodaBar	07092100	
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Interleaved2of5 255	070A11FF	
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Interleaved 2 of 5 None	070A2100	
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Interleaved 2 of 5	070A3100	
Industrial 25	070B0000	
Industrial 25	070B0100	
Industrial 25 0	070B1000	
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Industrial 25 32	070B1120	
Industrial 25 255	070B11FF	
Industrial 25 Mod10	070B2000	
Industrial 25 None	070B2100	
Industrial 25	070B3000	
Industrial 25	070B3100	

Matrix 2 of 5	070C0000	
Matrix 2 of 5	070C0100	
Matrix 2 of 5 0	070C1000	
Matrix 2 of 5 4	070C1004	
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Matrix 2 of 5 255	070C11FF	
Matrix 2 of 5 Mod10	070C2000	
Matrix 2 of 5 None	070C2100	
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Matrix 2 of 5	070C3100	
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MSI Plessey	070E0000	
MSI Plessey	070E0100	
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MSI Plessey Mod10	070E2000	

MSI Plessey	Mod10	070E2100	
MSI Plessey		070E3000	
MSI Plessey		070E3100	
RSS-14		070F0000	
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Standard 2 of 5	07203000	
Standard 2 of 5	07203100	
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