OPTICON

1D/2D

OPN-3200 i
OPN-4200 i

OPN-3200i OPN-4200i

2 2015 6

OPTOELECTRONICS

Bluetooth OPN-3200i OPN-4200i

/

A4

Bluetooth Bluetooth SIG, Inc. ( )

iPhone iPad iPod Apple Inc.

(1) :

(2) :

(3) : (1)

(4) :

CRT

(1)

2.4 GHz

Bluetooth

Bluetooth

: 2 1 19

2.4 GHz

: OPA-26X1

: 201-125603

Bluetooth

Bluetooth

Bluetooth ( )

Bluetooth

Bluetooth (2.4 GHz)

Bluetooth

( ) Bluetooth Bluetooth

Bluetooth 2.4 GHz

(

)

Bluetooth

(1) LED

IEC 62471-1:2006

(2)

EN60950-1:2005 IEC60950-1:2006

(3) EMC

R & TTE

EN 55022:2010

EN 301 489-1 V1.9.2

EN 301 489-17 V2.1.1

EN 300 328 V1.8.1

FCC Part 15 Subpart C , Subpart B ClassB

Federal Communications Commission Notices

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Harmful Interference Notice

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or devices
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

Changes or modifications to this equipment that have not been approved by Ruckus Wireless may void the user's authority to operate this equipment.

RF Exposure Information

This product complies with FCC radiation exposure limits set forth an uncontrolled environment.

VCCI B

(VCCI)

(4)

Bluetooth

MFi

Made for iPod iPhone iPad

“Made for iPod,” “Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

1.

1.1.

OPN-3200i Bluetooth (2)

OPN-4200i Bluetooth D (1)

	(*1)					
	D	**D**		**iOS** (*2)	**Android**	**Windows**
OPN-3200i	●	●	LED	●	●	●
OPN-4200i	●		LED	●	●	●

*1:

*2: iOS Apple iPhone iPad iPod touch OS

PC PC Bluetooth
Bluetooth
Bluetooth SPP HID

iPhone iPad iPod touch (Apple MFi)

1.2.

1.

(2.)
( )

2.

WEB

Bluetooth SPP Bluetooth MFi OPNTerm OPNIME

* iTunes Google Play

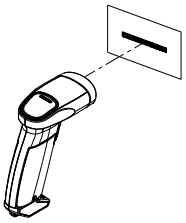
HID **OPN-3200i** MOST

3.

/

/ (4.1.)
(4.2.3.)
(3. 4.2.1.)

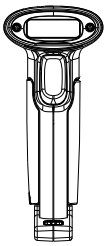
( )



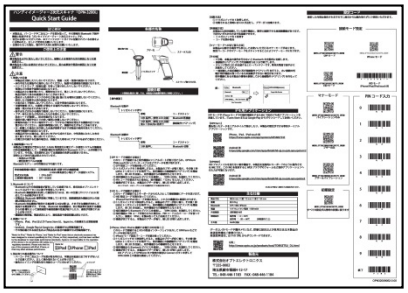
2.

2.1.

OPN -3200i OPN-4200i



( ) 1
OPN-3200i / OPN-4200i



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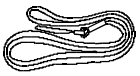

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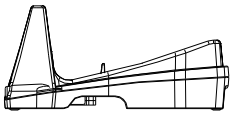
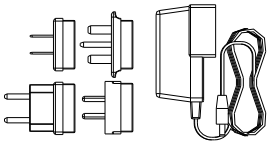
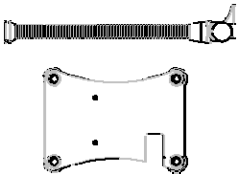


1
CHG-3201



AC 1



1
STD-0171

■

CHG-3201

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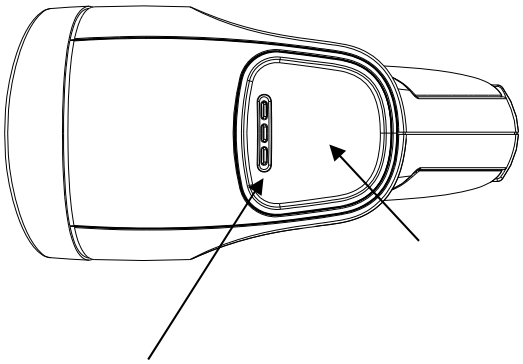
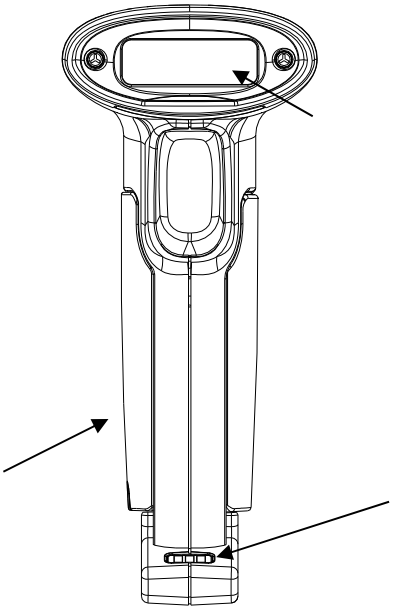
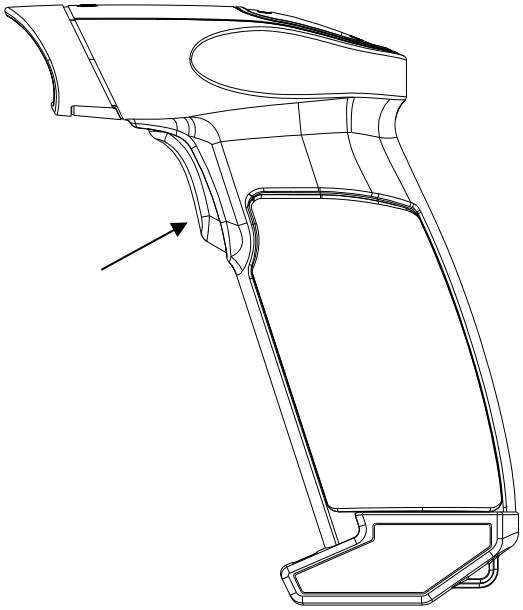
2.2.

OPN-3200i
OPN-4200i





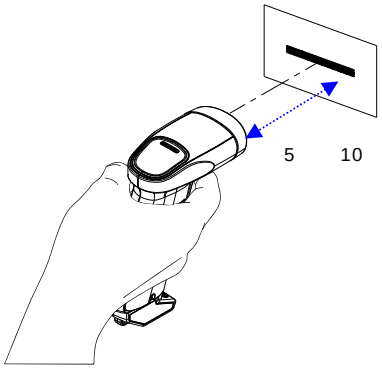


	LED
LED	Bluetooth
	CHG-3201

2.3.

■

5 10 cm



LED ( ) (LED

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(

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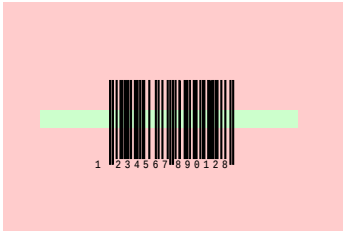
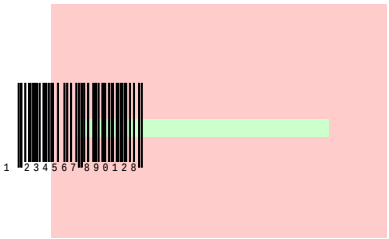
■

OPN-4200i

OPN-3200i





2.4.

LED

	LED			
			/	
Bluetooth			Bluetooth	
			Bluetooth	
			Bluetooth	
Bluetooth			Bluetooth	
			Bluetooth ( )	

3.

Bluetooth

3.1. Bluetooth

Bluetooth

: 2402 2480 MHz

: Bluetooth Ver.2.1

: 10

: 2 (4 dBm)

: SPP/HID

: 1 1

: /

:

3.2.

■

Bluetooth	HID HID-iDevice SPP MFi

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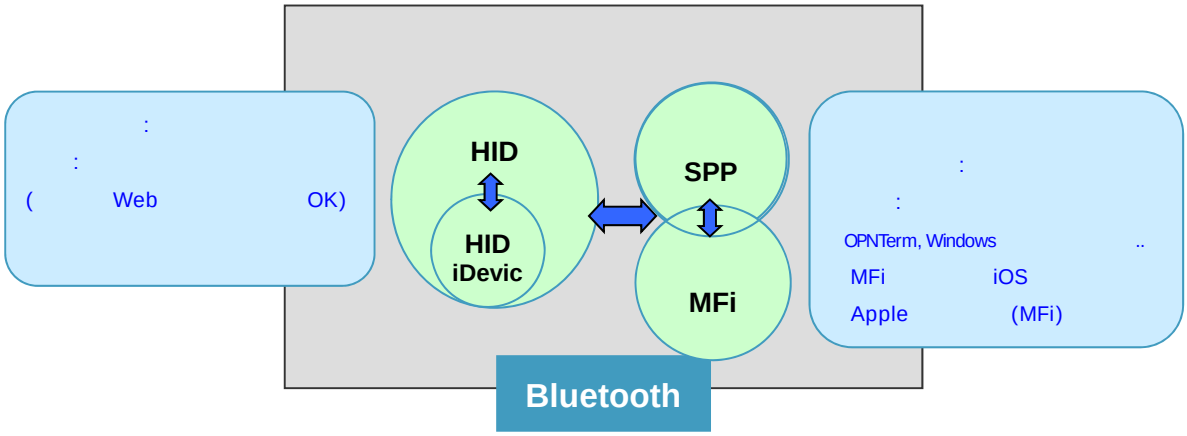
■



Bluetooth	HID	: Web
	HID iDevice	(iDevice): iPhone, iPad, iPod touch iDevice HID Web
	SPP ( )	: (*) (( ) ( )
	MFi (*1)	iOS Applie (Apple MFi) Bluetooth SPP iPhone, iPad, iPod touch (*)

*1: iPhone
*2: OPNTerm OPNIME Windows OPNTerm OPNIME iTunes Store Google Paly

3.3.

Bluetooth SPP ( )

Bluetooth SPP ( )

Bluetooth HID

Bluetooth HID iDevice

Bluetooth MFi

■ Bluetooth SPP ( )

/

1

, /

SPP → Bluetooth

BD → BD

,

2

, (3)

, 12

BD

3 **LED**

4 **PIN** **PIN**

1234

5 **LED**

LED

PIN

BD

( )

6

1

, (3)

, (5

2 LED

, (3)

,

■ Bluetooth SPP ( )

/

1

, /

SPP → Bluetooth

,

2

, (3)

/

3 **LED**

4 **Bluetooth**

5 **PIN** **PIN**

1234

6 **LED**

LED

PIN 2

7

1

, (3)

, (5

2 **LED**

■ Bluetooth HID

/

1

, /

HID → Bluetooth

,

2

, (3)

3 LED

4 PIN

PIN → PIN

5 LED

LED

PIN 2

6

1

, (3)

, (5

2 LED

, (3)

,

■ Bluetooth HID iDevice

/

1

, /

HID iDevice → Bluetooth

,

2

, (3)

3 LED

4 iPhone / iPad / iPod Bluetooth

→ [ ] –[ ] –[Bluetooth]

5 PIN

iPhone / iPad / iPod PIN

→ PIN

6 LED

LED

PIN 2

7

1

, (3)

, (5

2 LED

, (3)

,

■ Bluetooth MFi

iPhone / iPad / iPod: iOS 6.0

/

1

, /

MFi → Bluetooth

,

2

, (3)

/

3 **LED**

4 **iPhone / iPad / iPod Bluetooth**

→ [ ] –[ ] –[Bluetooth]

5 LED

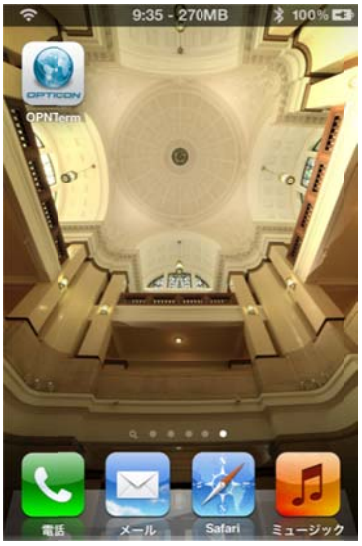
iPhone (LED)

LED

PIN 2

6 iPhone / iPad / iPod

( ) OPNTerm [Connect] OPN



7

1

, (3)

, (5

2 LED

, (3)

,

3.4.

, Bluetooth 12 BD

: 12 BD

: 12

, 12 BD :DIAU

, LED LED

, LED

, LED

,

,

, 20

: DTME]

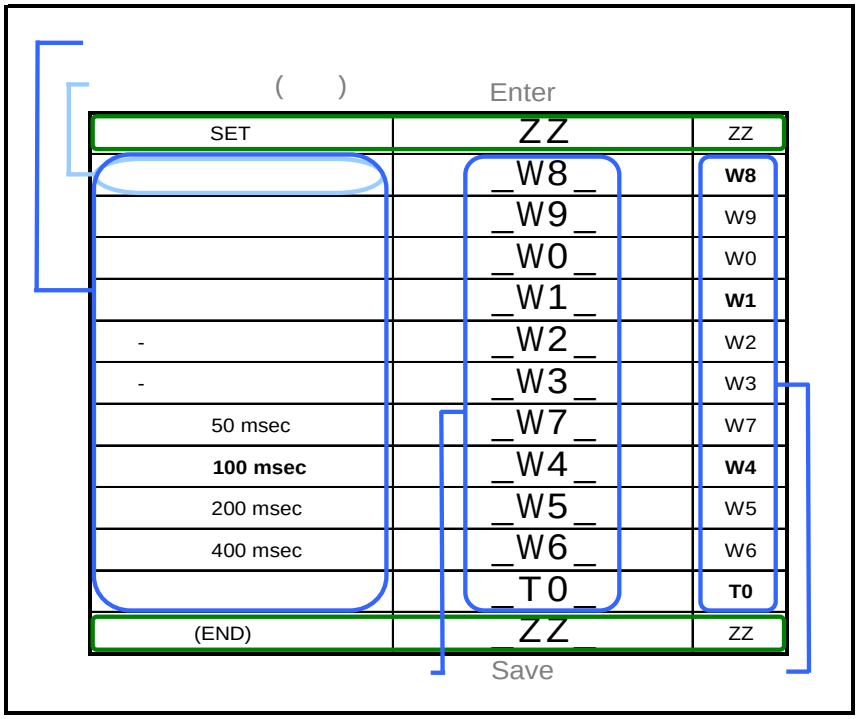
,

4.

4.1.

■

:



1. (ZZ)

↓

2.

↓

3. (ZZ)

2 5 ID

■ 2

OPN-3200i

(OPN-3200i) 2 2

@MENU_OPTO@ZZ@ 1@ 2@ZZ@OTPO_UNEM@

@MENU_OPTO		
@		
ZZ		
@ @	: [W0] : [EBI] GR	←
@		
ZZ		
@		
OTPO_UNEM@		

2 2 (PDF417 QR)

2 :

	2	
	 @MENU_OPTO@ZZ@W0@EBI@ZZ@OTPO_UNEM@	ZZ
		W0
		EBI
		ZZ

■

Bluetooth SPP Bluetooth MFi

■

	[1]		
<ESC> (0x0B) <STX> (0x02)		1 2 (ASCII)	<CR> (0x0D) <ETX> (0x03)
	[(0x5B)	3 (ASCII)	
	] (0x5D)	4 (ASCII)	
	{ (0x7B) [2]	5 (ASCII) [2]	

1 (1)

2 OPN-3200i/n

:

1 : <Esc>B<CR>

2 : <Esc>W0<CR>

3 : <Esc>[EBI<CR>

4 : <Esc>]BCMA<CR>

2 3 : <Esc>W0[C11<CR>

■

"Z2"

2

"Z2"

4.2.

4.2.1.

/ Bluetooth

4.2.3.

LED

4.2.1.

Bluetooth Bluetooth /

■ Bluetooth

Bluetooth

SPP	BCMA	( )	○
SPP	BCSA	( )	
HID	C02		
HID iDevice	BCHI		
MFi (1)	BCSI		

1 iPhone

3.2.

5.1. Bluetooth

7.2. Bluetooth

■ BD

BD (Bluetooth Device)

BD 12 0 9 A F (BD
)

, :

Code 39 Code 128 12 BD
BD

(1) Code 128 BD “B8:FF:61:32:7C:B2”:

(2) Code 39 BD “B8:FF:61:32:7C:B2”:

, :

:

[ZZ] [BDAS] [12] [BDAE] [ZZ]

BD 12 BD 12

5.1. BD

■ BD

BD

	ENAU	○
	DIAU	

Code 39 Code 128 12 BD

BD

5.1. BD

■

Bluetooth

BD Code 39 Code 128 12 BD

	ARCE	○
	ARCD	

5.1.

■ PIN

, (Secure Simple Pairing) Bluetooth 2.1
PIN

, PIN

PIN (1234)

, PIN PIN 1 16

, HID PIN

PIN 0 9 [PINE]

5.1. PIN

■

HID

US	KE	
	PM	○

5.1.

■ /

/

	TSCE	○
	TSCD	

5.1. /

, / :

BD /

/

	+-CONN-+		
	+-DISC-+		

5.1. /

■

Bluetooth

	PC00	
1 ~ 9	PC01 ~ PC09	○ 3

5.1.

■

Bluetooth

	PD00	
1 ~ 9	PD01 ~ PD09	○ 5

5.1.

■

Bluetooth

/

	AD00	
1 ~ 9	ADM1 ~ ADM9	○ 3
10 ~ 50	ADS1 ~ ADM5	
10 ~ 60	AD01 ~ AD06	

5.1.

■

,

	DSSE	○
	DSSD	

,

	DSPE	○
	DSPD	

5.1.

■ ACK/NAK

ACK/NAK

	XP5	○
	P3	
(No Response)	P4	

3

5.1. ACK/NAK

■ ACK/NAK

ACK/NAK ( )

1	XI7	
2	XI8	
5	XI9	○

5.1. ACK/NAK

■

ACK NAK

	WC	
	WD	○

ACK/NAK

5.1.

■

SPP ( )

30	SWT0	
1 ~ 4	SWT1 ~ SWT4	○ 2

5.1.

■

Bluetooth (local name) 19

5.1.

4.2.2.

■

JAN-13 OPN-3200i
17000 OPN-4200i 16300
( )

	DTME	
	DTMD	○

5. .

■

(4.2.1.
)

	BM1	
	BM0	○

5.2.

■

	CA00	○
1 ~ 15	CA01 ~ CA15	

5 5 20 5

[CA00]

5.2.

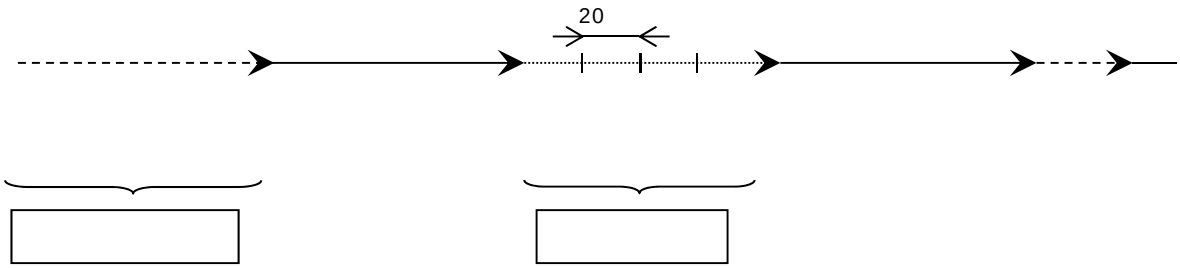
■

	EBB		○
	EBC	2	
	EBD		

5. .

5. .

•



4.2.3.

	SO	( )	○

5.3.
7.2.

4.3.

, Bluetooth

, USB Bluetooth USB

, PDA SPP COM

5.

OPN

5.1.

■ Bluetooth

	_ZZ_		ZZ
	SPP	_BCMA_	**BCMA**
	SPP	_BCsA_	BCSA
	HID	_C02_	C02
	HID iDevice	_BCHI_	BCHI
	MFi (1)	_BCSI_	BCSI
	_ZZ_		ZZ

1 iPhone

OPN-3200i

	SPP	@MENU_OPTO@ZZ@BCMA@ZZ@OTPO_UNEM@	**BCMA**
	SPP	@MENU_OPTO@ZZ@BCSA@ZZ@OTPO_UNEM@	BCSA
	HID	@MENU_OPTO@ZZ@C02@ZZ@OTPO_UNEM@	C02
	HID iDevice	@MENU_OPTO@ZZ@BCHI@ZZ@OTPO_UNEM@	BCHI
	MFi (1)	@MENU_OPTO@ZZ@BCSI@ZZ@OTPO_UNEM@	BCSI

1 iPhone

■ BD

	_ZZ_		ZZ
BD		_BDAS_	BDAS
		BDAE	BDAE
	_ZZ_		ZZ

■ BD

0	_Q0_		8	_Q8_
1	_Q1_		9	_Q9_
2	_Q2_		A	_0A_
3	_Q3_		B	_0B_
4	_Q4_		C	_0C_
5	_Q5_		D	_0D_
6	_Q6_		E	_0E_
7	_Q7_		F	_0F_

■ BD

	_ZZ_		ZZ
BD		_enau_	**ENAU**
		diau	DIAU
	_ZZ_		ZZ

■

	_ZZ_		ZZ
		arce	**ARCE**
		arcd	ARCD
	_ZZ_		ZZ

■ PIN

	_ZZ_		ZZ
PIN		_PINS_	PINS
		PINE	PINE
	_ZZ_		ZZ

■ PIN

0	_Q0_		5	_Q5_
1	_Q1_		6	_Q6_
2	_Q2_		7	_Q7_
3	_Q3_		8	_Q8_
4	_Q4_		9	_Q9_

PIN / [ZZ] [PINS]

PIN [PINE]

■

	_ZZ_	ZZ
	US _KE_	KE
	_PM_	**PM**
	_ZZ_	ZZ

■ /

	_ZZ_	ZZ
/	_TSCE_	**TSCE**
	TSCD	TSCD
	_ZZ_	ZZ

■ /

	+-CONN-+	+-CONN-+
	+-DISC-+	+-DISC-+

/ [ZZ]

	_ZZ_		ZZ
		_PC00_	PC00
	1	_PC01_	PC01
	2	_PC02_	PC02
	3	_PC03_	**PC03**
	4	_PC04_	PC04
	5	_PC05_	PC05
	6	_PC06_	PC06
	7	_PC07_	PC07
	8	_PC08_	PC08
	9	_PC09_	PC09
	_ZZ_		ZZ

	_ZZ_		ZZ
		_PD00_	PD00
	1	_PD01_	PD01
	2	_PD02_	PD02
	3	_PD03_	PD03
	4	_PD04_	PD04
	5	_PD05_	**PD05**
	6	_PD06_	PD06
	7	_PD07_	PD07
	8	_PD08_	PD08
	9	_PD09_	PD09
	_ZZ_		ZZ

	_ZZ_		ZZ
		_AD00_	AD00
	1	_ADM1_	ADM1
	2	_ADM2_	ADM2
	3	_ADM3_	**ADM3**
	4	_ADM4_	ADM4
	5	_ADM5_	ADM5
	6	_ADM6_	ADM6
	7	_ADM7_	ADM7
	8	_ADM8_	ADM8
	9	_ADM9_	ADM9
	_ZZ_		ZZ

	_ZZ_		ZZ
		DSSE	**DSSE**
		DSSD	DSSD
	_ZZ_		ZZ

	_ZZ_		ZZ
		DSPE	**DSPE**
		DSPD	DSPD
	_ZZ_		ZZ

■ ACK/NAK

	_ZZ_		ZZ
ACK/NAK		_XP5_	**XP5**
		_P3_	P3
	(No Response)	_P4_	P4
	_ZZ_		ZZ

■ ACK/NAK

	_ZZ_		ZZ
ACK/NAK	1	_XI7_	XI7
	2	_XI8_	XI8
	5	_XI9_	**XI9**
	_ZZ_		ZZ

	_ZZ_		ZZ
		_WC_	WC
		_WD_	**WD**
	_ZZ_		ZZ

	_ZZ_		ZZ
	30	_SWT0_	SWT0
	1	_SWT1_	SWT1
	2	_SWT2_	**SWT2**
	3	_SWT3_	SWT3
	4	_SWT4_	SWT4
	_ZZ_		ZZ

■

	_ZZ_	ZZ
	_E65_	E65
	_E66_	E66
	_ZZ_	ZZ

[ZZ] [E65] [ ] [E66] [ZZ]

19 [E65] [E65]

[E66]

■ 1

A	_0a_	0A
B	_0B_	0B
C	_0C_	0C
D	_0D_	0D
E	_0E_	0E
F	_0F_	0F
G	_0G_	0G
H	_0H_	0H
I	_0I_	0I
J	_0J_	0J

■ 2

	K	_0K_	0K
	L	_0L_	0L
	M	_0M_	0M
	N	_0N_	0N
	O	_0O_	0O
	P	_0P_	0P
	Q	_0Q_	0Q
	R	_0R_	0R
	S	_0S_	0S
	T	_0T_	0T
	U	_0U_	0U
	V	_0V_	0V
	W	_0W_	0W
	X	_0X_	0X
	Y	_0Y_	0Y
	Z	_0Z_	0Z

■ 3

	0	_Q0_	Q0
	1	_Q1_	Q1
	2	_Q2_	Q2
	3	_Q3_	Q3
	4	_Q4_	Q4
	5	_Q5_	Q5
	6	_Q6_	Q6
	7	_Q7_	Q7
	8	_Q8_	Q8
	9	_Q9_	Q9
	<SPASE>	_5A_	5A
	(	_5I_	5I
	)	_5J_	5J
	-	_5N_	5N
	.	_5O_	5O
	=	_7E_	7E

5.2.

■

	_ZZ_		ZZ
		DTME	DTME
		DTMD	**DTMD**
	_ZZ_		ZZ

■

	_ZZ_		ZZ
		_bm1_	BM1
		_bm0_	**BM0**
	_ZZ_		ZZ

	_ZZ_		ZZ
	10	_ADS1_	ADS1
	20	_ADS2_	ADS2
	30	_ADS3_	ADS3
	40	_ADS4_	ADS4
	50	_ADS5_	ADS5
	10	_AD01_	AD01
	20	_AD02_	AD02
	30	_AD03_	AD03
	40	_AD04_	AD04
	50	_AD05_	AD05
	60	_AD06_	AD06
	_ZZ_		ZZ

	_ZZ_	ZZ
	_CA00_	**CA00**
1	_CA01_	CA01
2	_CA02_	CA02
3	_CA03_	CA03
4	_CA04_	CA04
5	_CA05_	CA05
6	_CA06_	CA06
7	_CA07_	CA07
8	_CA08_	CA08
9	_CA09_	CA09
10	_CA10_	CA10
11	_CA11_	CA11
12	_CA12_	CA12
13	_CA13_	CA13
14	_CA14_	CA14
15	_CA15_	CA15
	_ZZ_	ZZ

■

	_ZZ_	ZZ
	EBB	**EBB**
	EBC	EBC
	EBD	EBD
	_ZZ_	ZZ

■

	+-mclr-+	+-MCLR-+

/ [ZZ]

5.3.

■ SO

	_ZZ_	ZZ
	_SO_	SO
	_ZZ_	ZZ

OPN-3200i

	@MENU_OPTO@ZZ@SO@ZZ@OTPO_UNEN@	SO

5.4.

■

	_ZZ_	ZZ
	_Z1_	Z1
	_ZZ_	ZZ

OPN-3200i

	@MENU_OPTO@ZZ@Z1@ZZ@OTPO_UNEM@	Z1

■

	_ZZ_		ZZ
		EBH	**EBH**
		EBI	EBI
		EBO	EBO
		EBP	**EBP**
		EBQ	EBQ
	100ms	_EBK_	**EBK**
	200ms	_EBL_	EBL
	400ms	_EBM_	EBM
	1000ms	_EBN_	EBN
	_ZZ_		ZZ

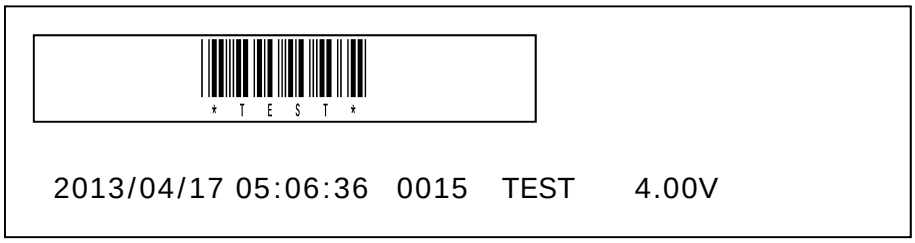
6.

(4.2.1. Bluetooth)

Bluetooth

<TAB>

Bluetooth 2



■ SPP / MFi

OPN-3200i

	ZZ	_ZZ_
	BM1	_BM1_
	EBC	_EBC_
	MZ	_MZ_
	$TM	_$TM_
^I (HT)	1I	_1I_
ID	$ID	_$ID_
^I (HT)	1I	_1I_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
^I (HT)	1I	_1I_
	$BV	_$BV_
V	0V	_0V_
^M (CR)	1M	_1M_
	ZZ	_ZZ_

@MENU_OPTO@ZZ@BM1@EBC@MZ@$TM@1I@$ID@1I@RY@RZ@PS@1I@$BV@0V@1M@ZZ@OTPO_UNEM@

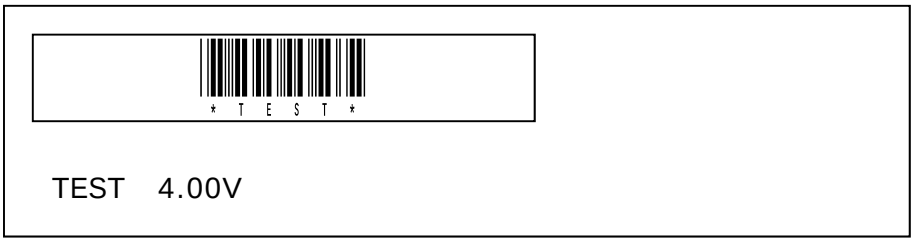
■ HID / HID-iDevice

OPN-3200i

	ZZ	_ZZ_
	BM1	_BM1_
	EBC	_EBC_
	MZ	_MZ_
	$TM	_$TM_
TAB	7H	_7H_
ID	$ID	_$ID_
TAB	7H	_7H_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
TAB	7H	_7H_
	$BV	_$BV_
V	0V	_0V_
RETERN	7I	_7I_
	ZZ	_ZZ_

@MENU_OPTO@ZZ@BM1@EBC@MZ@$TM@7H@$ID@7H@RY@RZ@PS@7H@$BV@0V@7I@ZZ@OTPO_UNEM@

4.0 V 3.6 V



■ SPP / MFi

OPN-3200i

	ZZ	_ZZ_
	MZ	_MZ_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
^I (HT)	1I	_1I_
	$BV	_$BV_
V	0V	_0V_
^M (CR)	1M	_1M_
	ZZ	_ZZ_

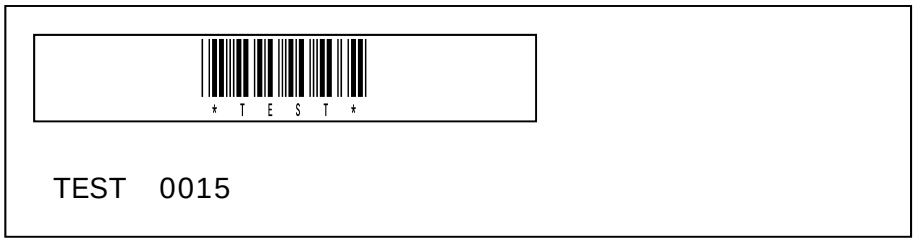
@MENU_OPTO@ZZ@MZ@RY@RZ@PS@1I@$BV@0V@1M@ZZ@OTPO_UNEM@

■ HID / HID-iDevice

OPN-3200i

	ZZ	_ZZ_
	MZ	_MZ_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
TAB	7H	_7H_
	$BV	_$BV_
V	0V	_0V_
RETERN	7I	_7I_
	ZZ	_ZZ_

@MENU_OPTO@ZZ@MZ@RY@RZ@PS@7H@$BV@0V@7I@ZZ@OTPO_UNEM@



■ SPP / MFi

OPN-3200i

	ZZ	_ZZ_
	MZ	_MZ_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
^I (HT)	1I	_1I_
ID	$ID	_$ID_
^M (CR)	1M	_1M_
	ZZ	_ZZ_

@MENU_OPTO@ZZ@MZ@RY@RZ@PS@1I@$ID@1M@ZZ@OTPO_UNEM@

■ HID / HID-iDevice

OPN-3200i

	ZZ	_ZZ_
	MZ	_MZ_
	RY	_RY_
	RZ	_RZ_
	PS	_PS_
TAB	7H	_7H_
ID	$ID	_$ID_
RETERN	7I	_7I_
	ZZ	_ZZ_

@MENU_OPTO@ZZ@MZ@RY@RZ@PS@7H@$ID@7I@ZZ@OTPO_UNEM@

Bluetooth HID

Bluetooth HID

0 ~ 10 1

	ZZ	_ZZ_
= 0	LA	_LA_
= 1	LB	_LB_
= 2	LC	_LC_
= 3	LD	_LD_
= 4	LE	_LE_
= 5	LF	_LF_
= 6	LG	_LG_
= 7	LH	_LH_
= 8	LI	_LI_
= 9	LJ	_LJ_
= 10	LK	_LK_
	ZZ	_ZZ_

7.

7.1.

7.1.1. OPN-3200i

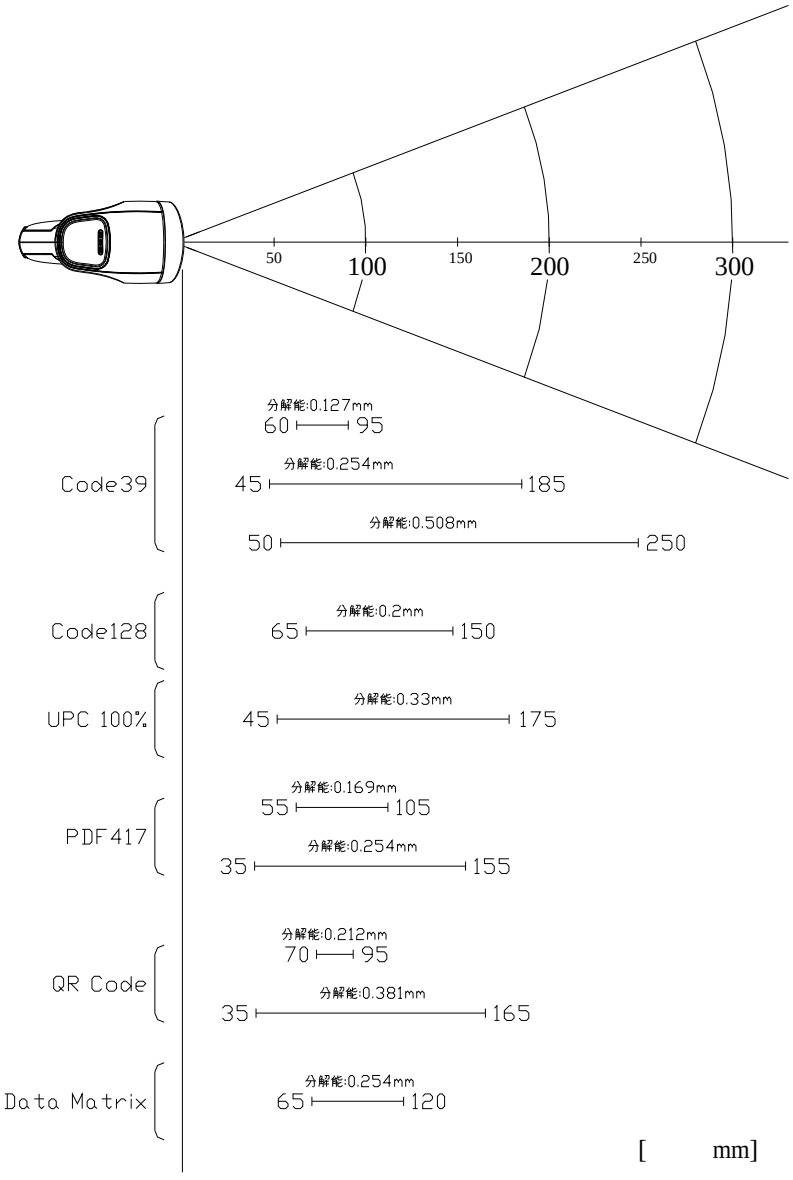
■ _____

	CPU	32 bit CISC / 96 MHz		
	FROM	512 Kbyte + 32 KByte		
	SRAM	96 Kbyte		
	FROM ( )	1 Mbyte		
		1 :		
	LED	2 2 ( ) 1 2 ( )		
		(3)		
		(3) 4		
I / F	Bluetooth		2402 2480 MHz	
			Bluetooth Ver2.1	
			10	
				4 dBm
		Profile	SPP / HID	
		WVGA (36) CMOS		: 60 fps
		LED × 2		
		LED × 1		
		36 (H: 752 × V: 480)		
		: 40.6° : 26.4°		
1D		UPC-A UPC-A Add-on UPC-E UPC-E Add-on EAN-13 EAN-13 Add-on EAN-8 EAN-8 Add-on JAN-8 JAN-13 Code 39 Tri-Optic NW-7 Industrial 2 of 5 Interleaved 2 of 5 S-Code IATA Code 93 Code 128 MSI/Plessey UK/Plessey Code 11 TELEPEN Matrix 2 of 5 Chinese Post Matrix 2 of 5 Korean Postal Authority code Intelligent Mail Barcode POSTNET JPN		
		Code 39: 0.1 mm		PCS 0.9

1D			16 mm (Codabar 0.15 mm 10) 20 mm (UPC 12))		PCS 0.9
			100 mm Code 39 0.2 mm (: 155 mm)		
			2 m/ UPC 100% (: 100 mm)		
	(mm)	Code 39	(0.127)	60 95	
			(0.254)	45 185	
			(0.508)	50 250	
		Code 128	(0.20)	65 150	
		UPC	(0.33)	45 175	
GS1/Composite			GS1 DataBar GS1 DataBar Limited GS1 DataBar Expanded Composite GS1 DataBar Composite GS1-128 Composite EAN Composite UPC		GS1 DataBar: RSS
			GS1 DataBar : 0.169 mm Composite Code : 0.169 mm		
2D			PDF417 MicroPDF417 Codablock F QR Code MicroQR Code Data Matrix (ECC 0 - 140 / ECC 200) MaxiCode (Modes 2 to 5) Aztec Code Aztec Runes Chinese-sensible code PLANET Netherlands KIX UK Postal Australian Postal		Codablock F Code 128
			PDF417 : 0.169 mm QR Code : 0.169 mm Data Matrix : 0.212 mm		PCS 0.9
	(mm)	PDF417	(0.169)	55 105	PCS 0.9
			(0.254)	35 155	
		QR Code	(0.212)	70 95	
			(0.381)	35 165	
		Data Matrix	(0.254)	65 120	
			: ±50°		
			: ±50°		
			: ±180°		
	PCS		0.2		(MRD) 12%

			1100 mAh (typ.)	
			24	10 Bluetooth (SPP)
		( )	5.0 6.5 V	
			1A	
			0 50	
			-20 60	
			20 85%RH	
			20 85%RH	
			10,000 lx	UPC 100% 75° 100 mm
			100,000 lx	
			10 100 Hz 19.6 m/s^2 1 60 X Y Z 1	
			150 cm 30 (6 5)	
			IP42	
	LED		IEC 62471-1:2006	Peak Wavelength 624 nm
			EN60950-1:2005 IEC60950-1:2006	
	EMC		EN 55022:2010 EN 301 489-1 V1.9.2 EN 301 489-17 V2.1.1 EN 300 328 V1.8.1 FCC Part 15 Subpart C , Subpart B ClassB VCCI B	
			CE	
			Bluetooth MFi	
			( ): ±15 kV	: IEC:61000-4-2
			( ): ±8 kV ( ) ±6 kV	
			113.0(D) × 56.0(W) × 132.0(H) (mm)	
			132 g	

■ _____


50
100
150
200
250
300
Code39
分解能:0.127mm
60
95
分解能:0.254mm
45
185
分解能:0.508mm
50
250
Code128
分解能:0.2mm
65
150
UPC 100%
分解能:0.33mm
45
175
PDF417
分解能:0.169mm
55
105
分解能:0.254mm
35
155
QR Code
分解能:0.212mm
70
95
分解能:0.381mm
35
165
Data Matrix
分解能:0.254mm
65
120

[mm]