

SPECIFICATIONS

CUSTOMER : SAMPLE CODE : DRAWIG NO. :

GFW160213-BNFAJP

DRAWIG NO

2008.08.04

Customer Sign	Sales Sign	Approved By	Prepared By

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Revision Record

Data(y/m/d)	Ver.	Description	Note	page
2008.08.04	00	New		11
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■Model:

Item Name	WIRELESS LCM
Model No.	GFW160213-BNFAJP
Specification	902~925MHz













Electrical Characteristic:

- 1. Frequency 902 ~ 925MHz(FCC) 863 ~ 865MHz(CE)
- 2. Output power 10dBm
- 3. Sensitivities of Receiving -112dBm(9.6K BPS)
- 4. Baud Rate : 9.6Kbps ~ 500Kbps
- 5. Transfer Mode
- 6. Temperature range of storage -10° C ~ $+60^{\circ}$ C
- 7. Temperature range of operation -0° C ~ $+50^{\circ}$ C
- 8. Operation Voltage : USB Poer = 5V Outre DC Adapter = 9V

Function:

GFW160213-BNFAJP module is adjustable to be the operation mode based on the environment and place, you can through the GFW160213-BNFAJP switch to adjust the operation mode : Wire transmission, wireless sender, wireless receiver.

Adaptable Channel

- ▶ 3rd LCD panel wireless transmission for Cash Register
- Wireless Transmission for Supermarket Price Tag
- Usage for PC command

For the moment, there are 3 control mode which could be selected the operation mode through the switch. (please refer the explanation about switch)

1. Wireless Server mode (Sender)

In this mode, the user can connect to LCM with USB, and transfer the datasheet to LCM (Sender) through USB; also, user can transfer datasheet through wireless function to receiver module, and display on the displayer of receiver.

2. Wireless server Mode (Receiver) :

In this mode, User only need to supplier 5V of power for the exterior, or the system even could be operated through the power supplied from the interior; can receive the datasheet from LCM (the sender), and change the content information showed on the displayer.



Explanation of Switch :

MODE	Switch 4	Switch 3	Switch 2	Switch 1	Function & command	
1	0	0	0	0	Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
2	0	0	0	1		
					Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
3	0	0	1	0		
					Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
4	0	0	1	1		
					Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
5	0	1	0	0		
					Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
6	0	1	0	1		
					Wireless Slave	
					The digit wireless receiver , display : MODE1DXXXX	
					(LCM ID NO.)	
7	0	1	1	0		
					PC : USB AND RS232 Wire display 1	
8	0	1	1	1	PC : USB AND RS232 Wire display 2	
9	1	0	0	0	PC : USB AND RS232 Wire display 3	
10	1	0	0	1	PC : USB AND RS232 Wire display 4	
11	1	0	1	0	PC : USB AND RS232 Wire display 5	
12	1	0	1	1	PC : USB AND RS232 Wire display 6	
13	1	1	0	0	back-up	
14	1	1	0	1	back-up	
15	1	1	1	0	back-up	
16	1	1	1	1	USB of PC port and RS-232 wireless sender displayer :	
					MODE1 IDXXXX (LCM ID No.1)	



\succ The first step to electrify ::

Firstly, User need to select the module, then connect the controller based on user's model and select the mode needed. When the user choose the mode to be controlled by PC, when the user insert LCM into it, the displayer will show "TEST USB PASS".

If the user choose the mode to be controlled by wireless sender , when user insert USB to drive it, the displayer will show " RF PASS".

> The Wireless Receiver LCM type & ID setting mode

The user need to select the GFW160213-BNFAJP module to be the mode executed, and then, user insert the USB connect wire of GFW160213-BNFAJP into the USB port of PC, and through PC, user execute "RS-232 test soft system "

User push the "GFW160213-BNFAJP "Module setting selection button, the status pilot light will be flashed alternately, when the wireless receiver receive the datasheet from PC, it will register immediately the datasheet into module ID and display the LCM module category. When the above command finish, the displayer will show up MODE1ID0001, which means " set up completed "

If user need to display difference LCM at the same time due to the environment, the user need only to repeat the action 1~2, just to change the ID number.

For example, if user need the ID no. to be ID No.2, then only need change the command to be MODE1ID0002, Max. Q'ty of ID is 9999.





- Step 1: Connect the USB port of sender's module to the PC.
- Step 2: Electricity the sender's module.
- Step 3: User need to check and select the com port in the Device Manager





Step 4: Execute the software Access Port

AccessPort - COM5Not for	ınd or it has been	used!				
<u>File V</u> iew <u>M</u> onitor <u>T</u> ools <u>O</u> pe	eration <u>H</u> elp					
🍓 🕲 🄁 🗲						
Send-> 🔘 Hex:AD 00 0D FF	💿 Char: Text	Send	Clear	Please downlos	d the newest v	ersion 50.64428 Beta 55623
🖩 🔯 H W C						
Ready				Tx O	Rx 0	COM5Not found or



Step 5: Press F2 to set up the com port.

🚰 AccessPort - COM5Not found or it has been used!							
File View Monitor Tools Operation Help Press F2 to set up the COM PORT							
- 🕑 🕑 🚺	🗞 Configuration						
Send-> 🔿 Hex:AD 00 0D FF 💿 Char:	Serial Port Settings	Beta 55623					
	Port: COM5	<u>^</u>					
	Baud Rate: 115200						
	Parity Bit: NONE						
	Data Bit: 8	~					
🗑 🗱 H W C	Stop Bit: 1						
	Buffer Size: 8192						
	Send display Receive display						
	 Char Format Char Format 						
	Hex Format						
	AutoSend Enable auto send Cycle 1000 ms						
	Advanced						
	Auto open port when application start						
	Prompt for saving when application exit						
Ready	▶ Kemina me when update is available	found or :					



The set up completed	l, press OK butt	on.	COM POR	T set u	ip comple	ted	
AccessPort - COM	🍓 Configuration						
File View Monitor I	Serial Port Settin Port: Baud Rate: Parity Bit: Data Bit: Stop Bit: Buffer Size: Send display Ochar Format Hex Format AutoSend	COM7 115200 NONE 8 1 8192	Receive display Other Form Hex Form			<u>K</u> ncel	sion 50.64428 Beta 55623
The day	Advanced Advanced Auto open po Prompt for se Remind me v	end ⊂ ort when app wing when a γhen update	ycle 1000 plication start application exit is available] ms			COMENTATION
Ready					ľx0	RxO	COM5Not found or :

Step



Step 7: Enter words on the blank, and then press "send "

AccessPort - COM7(115200,N,8,1) Opened	
<u>File Yi</u> ew <u>M</u> onitor <u>T</u> ools <u>O</u> peration <u>H</u> elp	
🍋 🚳 🔁 💈 🥝	
Send-> O Hex:AD 00 0D FF O Char:Text Send Clear Please download the ne	west version 50.64428 Beta 55623
Wireless Transmission Module	
Enter words then press " send "	~
🖬 😫 H W C	
Ready Tx0 Rx	0 COM7(115200,N,8,

Step 8 : After sending, the receiver module will show up the words been entered earlier.