G4/G5 Voice Pager Supports P25 Radio Systems Now!

Analog / Digital / Multi-Protocol



Voice Pager Specially Designed for Public Safety

Advanced Radio PerformanceMission Critical ApplicationsOptional GSM Features Available



If you have any questions, please call our main line: 817-303-9320. www.Unication.com

US-G4-FF-20150126-V1

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A1	Operating Environment			
a Physical Operating Environment		Operating Temperature Range	-30 to + 60°C	
		ESD (Electrostatic Discharge)	contact ± 8	3KV Air ± 15KV
			Analog (AM / FM)	
			Digital (TDMA / FDMA)	
b System Operating Env		Available Modulation Type	Digital and Analog identify modulation type and decode protocol automatically at the same time. (on same channels and same frequencies)	
	System Operating Environment		Analog : 2-Tone / 5-Tone / MDC 1200 / CTCSS / CDCSS	
5		Available Support Protocol		
			Digital	P25 Conventional
			VHF Band : 136MHz~174MHz	
		Available Support Frequency Range	UHF Band : 406MHz~512MHz	
			700 / 800 MHz Band : 764MHz~870MHz	

F G4 Digital Trunking and Analog Voice Pager Specification & Feature

c Apply to (Group)

A2	Hardware Specification				
	Fixed and Carry Style	Belt Clip			
	Size	102 x 61 x 31.5 (L*W*H /mm)			
		Weight (g)	Without Battery(g) : ≤ 220 (g)		
a Mechanical	Dust / Waterproof	According to specification of MIL-810 & Ingress Protection Rating is IP 67			
			Drop Protection Pad		
		Special Requirement	Display UV Protection		
	Fixed Function Key	13			
	b Operation Buttons	Soft Key	4		
b		Navigation Key	1		
		Power			
		Volume Control			
		Channel Switch	8		
		Display Type	LCD		
		Saturation (grayscale / full color)	full color		
с	Display	Size (length x wide)	2.0 inches (30.6x40.8/mm)		
		Number of Dots	220 x 176		
		Characters & Length	9 lines x 22 characters		
d	Backlights	Type (LED / EL) : LED			
e	LED	LED Type (monochrome / multicolor) : red / green / blue / orange	Power LED: No Brightness – Power off / Power on completed		

F G4 Digital Trunking and Analog Voice Pager Specification & Feature

A2	Hardware Specification					
е	LED	LED Type (monochron multicolor) : red / gree orange		cable / Charging o Flash Blue - Charg Message LED: No		
					Wied Band : 20/25k	
		Frequency Setting		Channel Spacing	Narrow Band :10/12.5	
					Scan : 2.5k	
				Hardware : 8 (do r software)	not need to switch via	
f	Frequency / Channel Specification	Number of Channels		software)	h / 8 Zone) (switch via	
				Total : 64		
		Capcodes (Addresse Frequency / Channel	s)	Analog		
		Specification of each	channel	Digital		
		Tone : Buzzer and spe and reminder	eaker are the	main device to be	used as message alert	
		Vibration : Motor and	vibration spe	aker device are use	ful in meeting	
		Tone and Vibration : A	Alert tone and	l vibration remind us	sers as the same time	
g	Type of Alert	Vibration then Tone :	Vibrate first, t	hen alert after few s	seconds	
		Blacklight : Coloured backlights indicate users to identify the important level of each message, such as different colors, flashing backlights, different brightness				
		LED : Different LED colors, flashing LED, different indicators				
		Power Interface : 5V/1.5A DC Internal Power Supply / Battery input interface				
h	External Port	Data recording stream interface (PPS)	ning	Mini USB		
		Wireless data streami	ng interface:	(Bluetooth, WiFi)		
		Battery type : (Alkaline battery, Lithium Ion battery) Battery Life : (Average bettery life at 5/5/90 duty cycle, 3 paging per day)		1. Lithium Ion Rechargeable Battery : 3.7V / 2450mA 2. Lilon Rechargeable Battery : 3.7V / 2450mA		
i	Power Supply			 > 24 hrs 2-Tone protocol co using 24 hrs per d Receiving 5 mins message per hour 	ay of 2-Tone voice	
		Built-in Storage Memo	ory:	Voice		
j	Storage Memory	(including voice, text a		Text		
		time of data)		Others (Photos / F	Profiles)	
A3	Electrical Characteristics					
				Hum & Noise Rati	o > 34 dB	
	Audio Performance	Audio quality : Audio	Receive	Squelch Level	< -57 dBw	
		input in 1KHz, then modulated by system		Audio Distortion	< 2 % (Electrical) < 3 % (Acoustic)	
а			Play Back	Audio Distortion	< 3 % (Electrical) < 4 % (Acoustic)	
		SPL (12") : Alert tone loudness at 12 inches	Alert Output	96 +/- 2 dB SPL		

F G4 Digital Trunking and Analog Voice Pager Specification & Feature

а	Audio Performance	SPL (12") : Alert tone loudness at 12 inches	Speech Output	94 +/- 2 dB SPL	
		Frequency Stability :		Low band	
		at the normal atmosph	at the normal atmospheric		+/- 1 ppm
		temperature (25°C)		UHF	
		Channel Specing (Low band	
		Channel Spacing : at (25 °C)		VHF	10/12.5/20/25 kHz
				UHF	
		Alert Sensitivity 20 page	aina :	Low band	
		at (25 °C)	5	VHF	≦-121dBm
				UHF	
		Alert Probability VS R	E Level:	Low band	100% @ Paging
		at (25 °C)	Lovol.	VHF	Sensitivity + 3 dB
				UHF	-
		Message Sensitivity 2		Low band	≦ 4.0 uv/m
		(Voice Pager @ 12dB (Alpha Pager 3 Non-ei		VHF	\leq 2.5 uv/m
		(25 °C)	1017 . 41	UHF	≦ 3.5 uv/m
		Message Probability V	'S RF	Low band	\leq 4.0 uv/m
RF RX Performance	Level : (Voice Pager (SINAD) (Alpha Pager	@ 12dB	VHF	\leq 2.5 uv/m	
		Non-error) : at (25 °C)	UHF	\leq 3.5 uv/m
				Low band	
	Adjacent Channel Selectivity : at (25 °C)		VHF	≧65 dB @ ±25 KHz	
			UHF		
			Low band	> -8 dB	
		Co - Channal Rejection : at (25 °C)			VHF
		at (25°C)	UHF		
				Low band	≧ 70dB @ Alert ≧ 70dB @12dB
		Intermodulation Rejec	tion :	VHF	
		at (25 °C)	UHF	SINAD	
				Low band	
		Intermodulation High I		VHF	≧ 35 dB @PS.+60d
		Order Rejection : at (2	Order Rejection : at (25 °C)		
				UHF Low band	
		Spurious & Image Rej	ection :	VHF	≧ 70 dB
		at (25 °C)		UHF	
				Low band	
		Blocking Rejection :		VHF	≧ 90 dB
		at (25°C)	at (25 °C)		= 30 UD
\4	CERTIFICATION			UHF	
		FCC : Part 15 Subpart	B/ICES-00	03	
		CE : EN55022 / EN55024 / EN61000-3-2 / EN61000-3-3			
a	Certification	RoHS			
		UL Division 1, Class I, Group C, D, / Class II, Group E, F, G			
		MIL-STD			

a Audio Amplification / Enhance receiving signal / LED Display / Relay / Remote control (OTAC)

Part B. Pager Overview







Rear View



Accessories



NO.	Description
1	LED Indicator
2	Navigation Key
3	Soft Key (K1~K4)
4	Back Key (F2)
5	Home Key (F1)
6	Speaker
7	Microphone
8	Receive Antenna
9	Channel Knob
10	Play Key
11	Power on/off & Volume Knob
12	Reset Key
13	Function Status on/off Key (S1)
14	Mini USB Port
15	Belt Clip
16	Battery Cover

B2. LCD Display

05:30 📥	≵⊉ 💷	Status Bar
Status On/Off	(1/3)	
1. Select Zone Current:Zone1_VHF		
2. On Off Duty	On Off	— Text Area
3. Reminder Alert	On Off	
4. Monitor Mode	In Off	
5. Bluetooth Settings		
●On⇔Off	 Setting 	Tool Bar



Power LED:

NO.	Entity Key	Description
1	Blue	 Power on process USB cable is connected to G4 and charging is completed.
2	Flash Blue	• Charging

Message LED:

NO.	Entity Key	Description
1	Red	 Receiving voice call or data call

B4. Icon Introduction

Status Bar Icon

NO.	ltem	lcon	Description
1	RF Strength	ull	RF signal strength.
2	Out of Range	\otimes	Signal is out of range.
3	Message Hint	Ę	Unread message icon indication.
4	Time Display	18:30	Time display (24 hour clock).
5	Off Duty Status	3	Off duty status.
6	On Duty Status		On duty status.
7	Bluetooth	*	Bluetooth is activated.
8	Bluetooth Headset	*0	Bluetooth earphone is connected.
9	USB cable	Ψ	USB cable is connected.
10	Trunking Status	Т	Trunking registered.
10		S	Trunking scanning.
11	Clock Alarm	íO,	Clock alarm is activated.
12	Battery Status		The battery gauge indicator is located on the status bar and keeps you informed of the batery energy level. The five indicators are:100%, 75%, 50%, less 0% (flashing battery icon).

C1. Initial Use

Install Battery

1 Turn the screws and remove the battery cover.

Insert the battery pack into G4.

3 Replace the battery cover and and tighten the screws.

Battery Charging

G4 has its own customized lithium lon battery, it can be charged by mini USB cable.





Insert the battery so that the connector pins align with battery contacts of the G4.

Power On

After the battery installed , turn the volume knob clockwise to turn on G4. You will hear "click" sound and see the word of "Loading" on the display.



Standby Screen

On the standby screen, G4 displays information on the current receiving mode.



Receive Message

G4 displays the information of the incoming call when receives a message.



Main Menu

- 1. In Standby Mode, press the "K1" soft key to enter the Main Menu.
- 2.Press the "Home" key to go back to Standby Mode.

02:26	
Main Menu	(1/2)
Mager Message B	ox
🚟 Function Status	
💣 Function Setting	
👰 Voice Memo	
All Band Scan	
	♦ PgDn

C2. Pager Message Box

 View and Manage Text Message Records in Message Box.

1. Enter Message Box:

Use the Navigation Key to select Message Box in the Main Menu.

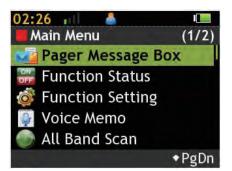
2. Operation:

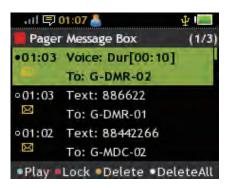
- A. Use the Navigation Key to select Message.
- B. Press the "K1" Key to read highlighted message.
- C. Press the "K2" Key to lock/unlock highlighted message. A lock icon shows on a locked message.
- D. Press the "K3" Key to delete highlighted message.
- E. Press the "K4" to delete all messages.

3. Read Message:

- A. Use the Navigation Key to scroll the message.
- B. Press the "K1" Key to lock/unlock the message.

Note: A locked item cannot be deleted.







C3. Function status

• Enter Function Status:

Use the Navigation key to select Function Status in the Main Menu.

• Basic Operation:

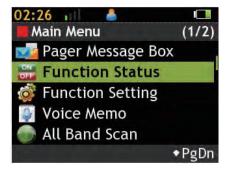
Use the Navigation Key to select features to set.

1. Select Zone:

Press the "K1" Key to enter setting screen. Use the Navigation Key to select Zone and then press the "K1" Key to confirm. Press the "K2" Key to save. You can press the "K4" Key to check detailed information of highlighted Zone.

2. On Off Duty:

Press the "K1" Key to enable or disable the feature. If On Off Duty is disabled, the speaker is muted when receiving messages.







3. Bluetooth:

Bluetooth Device: Press the "K1" Key to enable or disable the feature.

Connect Bluetooth Earphone: Press the "K1" Key to start searching for the Bluetooth Earphone devices.

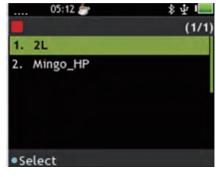
Connect another Bluetooth Device: Press the "K1" to start searching for Bluetooth devices other than earphone.

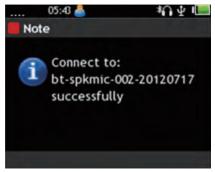
If only a Bluetooth device is found, the G4 starts pairing to the device. The G4 shows the pairing status on the screen.

If there are 2 or more devices, use the Navigation Key to select device and press the "K1" Key to start pairing.

Press the "K1" Key to stop Bluetooth pairing.









C4. Voice Memo Box

 View and Manage Voice Memo in Voice Memo Box.

1. Enter Voice Record Box:

Use the Navigation Key to select the Voice Memo Box in the Main Menu.

2. Record a New Voice Memo:

If there is no voice memo, press the "K1" Key to start recording.

- A. Press the "K1" Key to pause.
- B. Press the "K4" Key to save the voice memo.
- C. Press the "K1" Key to set the voice memo as Alarm.
- D. Press the "F2" Key to back to Voice Memo box.

3. Voice Memo:

View and manage the voice memos.

Features page 1:

- A. Press the "K1" Key to play highlighted voice memo.
- B. Press the "K2" Key to set highlighted voice memo as Alarm.
- C. Press the "K3" Key to record a new voice memo.
- D. Press the "K4" Key to switch to features page 2.

Features page 2:

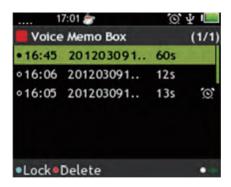
- E. Press the "K1" Key to lock/unlock the highlighted item.
- F. Press the "K2" Key to delete the highlighted item.
- G. Press the "K4" Key to switch to features page 1.

4. Set Alarm:

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

02:26 📖 👗	
📕 Main Menu	(1/2)
对 Pager Message Box	x
🚟 Function Status	
💣 Function Setting	
🍯 Voice Memo	
🌍 All Band Scan	
	◆PgDn

16:55 👉		©`⊉ I (1/1)	
o16:06	201203091	12s	
°16:05	201203091	13s	0
•Play	Set Alarm	Record	



C5. All Band Scan

 Set a range to scan, or view the scanned channel list.

1. Enter Voice Record Box:

- A. Use the Navigation Key to select All Band Scan in the Main Menu.
- B. Use the Navigation Key to select a feature, and press the "K1" key to enter.
- C. Press the "K1" Key to set the voice memo as Alarm.
- D. Press the "F2" Key to back to Voice Memo box.

2. Start a New Scan:

Set scan range, band and frequency step.

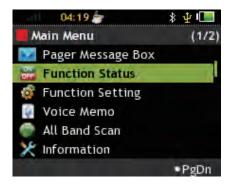
- A. Use the Navigation Key to move.
- B. Press the "K1" Key to set the highlighted item.Use the Navigation Key to adjust numeric value.
- C. Press the "K4" Key to start scanning.
- D. Press the "K1" Key to stop scanning.

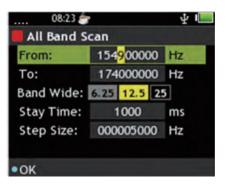
3. Active Frequency List:

View and manage scanned channel list.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to monitor the highlighted channel.
- C. Press the "K2" Key to lock the highlighted channel.
- D. Press the "K3" Key to delete the highlighted channel.
- E. Press the "K4" to delete all scanned channels.







C6. Function Setting

- View and manage pager basic function.
 - Enter Function Status: Use the Navigation Key to select Function Setting in the Main Menu.
 - Basic Operation: Use the Navigation Key to select function. Press "K1" Key to start setting.

1. Zone:

Please refer C2-1 to get detailed information.

2. Alert Tone Volume:

Use the "K1" Key to adjust the pager tone volume.

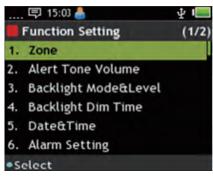
- A. Operation Allowed: Operation successed.
- B. Operation Succeed: Message received.
- C. Operation Failed: Message receiving failed.
- D. Message Arrived: Text message received.
- E. Alarm: Alarm volume

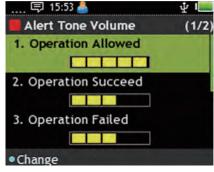
3. Backlight Mode&Level:

Use the "K1" Key to adjust backlight mode.

- A. Mode: Select the backlight mode. There are 2 modes: "Manual" or "Auto".
- B. Manual: Night is low level, Day is medium and Glare is high level of backlight.









4. Backlight Dim Time:

Adjust screen backlight dim time.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

5. Date & Time:

Adjust Time of pager.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

6. Alarm Setting:

Set up to 2 sets of Alarm.

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to activate the Alarm.
- C. Press the "K4" Key to set.

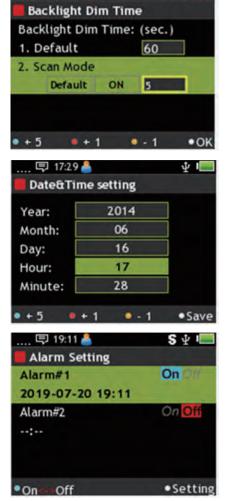
Alarm setting:

- A. Use the Navigation Key to move.
- B. Press the "K1" Key to make highlighted value +5.
- C. Press the "K2" Key to make highlighted value +1.
- D. Press the "K3" Key to make highlighted value -1.
- E. Press the "K4" Key to save.

7. Monitor Mode:

Please refer to C2-4 for more detailed information.





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8. Ring Mode:

Select Ring mode.

There are 5 modes:

- Tone: Tone only.
- Vibrate: Vibrate only.
- Silent: Mute mode.
- Vibrate then tone: Vibrate first then tone.
- Tone and Vibrate: Both.
- A. Use the Navigation Key to move.
- B. Press the "K1" Key to select.
- C. Press the "K4" Key to save.

🗊 20:06 着	S 🖞 📖	
Ring Mode	(1/1)	
Select Ring Mode:		
1. Tone		
2. Vibrate		
3. Silent		
4. Vibrate then Tone	7	
5. Tone and Vibrate		
 Select 	• Save	

C7. Information

• View the Pager information.

1. Enter Information:

Use the Navigation Key to select Information in the Main Menu.

2. Read:

Language: Display language

- Language: Display language
- Version: Firmware version.
- SDRAM: SDRAM size.
- Protocol Model: Device model type.





C8. Diagnostic

• View the radio signal strength.

1. Enter Message Box:

Use the Navigation Key to select Message Box in the Main Menu.

2. Read Information:

- A. Rpt Name: Name of repeater
- B. RSSI(dBm): Radio Signal Strength Indicator.
- C. Protocol: Using Protocol of current channel.
- D. Frame Error: Received signal error radio.
- E. Others: Refer to channel setting.



- Frame Error: 0%
- CTCSS: -
- CDCSS: -

Exit