

GOLD APOLLO



WIRELESS PAGING SOLUTION

RESTAURANT PAGING SYSTEM

GUEST CALL PAGING
TABLE CALL PAGING

NURSE CALL SYSTEM

TWO WAY PAGING

TELEMETRY CONTROL

DATA RECEPTION
ADVANCED ENCRYPTION STANDARD BOX

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GUEST PAGING SYSTEM

Guest Receiver



AL-A02

- Advertising compartment
- Shatterproof
- IP-67 water/dust proof capability
- Recognizable LED flash, sound, vibration
- High sensitivity
- Durable rechargeable battery



AL-A05

- Basic model
- Robust case
- Recognizable LED flash, sound, vibration
- High sensitivity
- Low cost maintenance



AL-A06

- Coaster shape model
- Circular LED indicator
- Shatterproof
- IP-67 dust and water/dust proof capability
- High sensitivity
- Durable rechargeable battery

Model	AL-A02	AL-A05	AL-A06
Frequency	135~174 Mhz, 430~470,860~872 Mhz	135~174 Mhz, 430~470 Mhz	
Baud Rate	1200bps		
Channel Spacing	12.5KHz / 25KHz		
Paging Sensitivity	1200bps -- 7uV/M		
Spurious Rejection	40db below carrier		
Alert Tone Loudness	87db @ 10 cm	87db @ 10 cm	78db @ 10 cm
Capcodes	4 Capcodes for POCSAG		
Dimension (mm)	56(L) x 205(W) x 21(H)	109(D) x 15.2(H)	110(D) x 16.20(H)
Weight (with battery)	108.50 g	115 g	110 g
Charger			

GUEST PAGING SYSTEM

Staff Receiver




E-Pager

- Portable with clip design
- Compact and light
- Recognizable LED flash, sound, vibration
- Simple operation
- Alkaline battery acceptable



AL-A03

- Staff pager
- Robust case
- Portable with clip design
- Simple operation
- Low power consumption

Model	E - Pager	AL-A03
Frequency	135~174, 430~470 Mhz	135~174, 430~470, 860~872 Mhz
Paging Sensitivity	512bps - 5μV/M, 1200bps - 7μV/M, 2400bps - 9μV/M	
Bit Rate	512 / 1200 / 2400bps for POCSAG	
Channel Spacing	12.5KHz / 25KHz	
Spurious Rejection	40db below carrier	
Alert Tone Loudness	87db @ 10 cm	
Capcodes	4 Capcodes for POCSAG	
Dimension (mm)	41 (L) x 60 (W) x 29 (H)	30.9(L) x 48.8(W) x 74.5(H)
Weight (with battery)	36.5 g (Without Battery)	76 g
Charger	X	

GUEST PAGING SYSTEM

Desktop Transmitter



TE-300

- Wireless POCSAG Transmitter
- Desk Type
- Friendly user interface
- 50 buttons
- Active Voltage Range: DC 8.4V
- Output power up to 1 watt
- RS232 port for programming
- Range test



TE-310

- Desk Type
- Friendly user interface
- 19 buttons with 19 name tags available
- Active Voltage Range: DC 8.4V
- Output power up to 1 watt
- RS232 port for programming
- Range test
- F1, F2, F3 - three function keys for pre-programming canned message application

Model	TE-300	TE-310
Key	50	19
Frequency range TX	135~174 Mhz, 430~470 Mhz	
Modulation Type	FSK	
Output Power	1W	
Output Connect	BNC (F)	
Channel Spacing	12.5KHz / 25KHz	
Maximum Deviation	±2.5KHz / ±4.5KHz	
Harmonic Radiation	60dBc or -36dBm	
Frequency Stability	±2.5 ppm at -10°C~+60°C	
Current Consumption	Standby: 120mA; Transmit: 420mA	
Dimension (mm)	232(L) x 170(W) x 50(H)	
Weight (with battery)	650 g	

ALL-IN ONE GUEST PAGING SYSTEM



AL-A07 (RX)

- Advertising compartment
- Design for All-in-One Guest Paging System A07TCP
- Shatterproof
- IP-67 dust and water/dust proof capability
- Software free programming

Model	AL-A07 (RX)
Frequency	430~470 Mhz
Paging Sensitivity	1200bps -- 7uV/M
Bit Rate	1200bps for POCSAG
Channel Spacing	12.5KHz / 25KHz
Spurious Rejection	40db below carrier
Alert Tone Loudness	78db @ 10 cm
Capcodes	4 Capcodes for POCSAG
Dimension (mm)	135(L) x 63(W) x 18(H)
Weight (with battery)	127g



A07TCP (TX)

- Advanced guest paging system
- Integrated with transmitter, charger and programmer
- Intelligent automatic programming
- Standalone system
- Extendable by A07C charging base
- Support 60 units A07

Model	A07TCP (TX)
Frequency range TX	VHF 135~174 MHz, UHF 430~470MHz
Modulation Type	FSK
Channel Spacing	12.5KHz / 25KHz
Output Power	1W
Maximum Deviation	±2.5KHz / ±4.5KHz
Harmonic Radiation	60dBc or -36dBm
Frequency Stability	±2.5 ppm at -10°C~+60°C
Output Connect	BNC (F)
Current Consumption	Standby: 120mA; Transmit: 420mA
Dimension (mm)	274.53 (W) x 242.69 (H)
Weight (with battery)	2170 g

ALL-IN ONE GUEST PAGING SYSTEM



AL-A07B (RX)

- Advertising compartment
- Design for All-in-One Guest Paging System A07TCP
- Shatterproof
- IP-67 dust and water/dust proof capability
- Software free programming

Model	AL-A07B (RX)
Frequency	UHF 430~470 MHz
Paging Sensitivity	512bps -- 5uV/M, 1200bps -- 7uV/M
Bit Rate	512, 1200bps for POCSAG
Channel Spacing	12.5KHz / 25KHz
Spurious & Image Rejection	>=50dBm
Alert Tone Loudness	>= 80dB@ 10cm
Capcodes	6 Capcodes for POCSAG
Battery Life	96 hours (Standby mode) 72 hours (24 Messages per day)
Dimension (mm)	135(L) x 63(W) x 18(H)
Weight (with battery)	127g



A07TCP (TX)

- Advanced guest paging system
- Integrated with transmitter, charger and programmer
- Intelligent automatic programming
- Standalone system
- Extendable by A07C charging base
- Support 60 units A07

Model	A07TCP (TX)
Frequency range TX	UHF 430~470 MHz
Modulation Type	FSK
Channel Spacing	12.5KHz / 25KHz
Output Power	1W
Maximum Deviation	±2.5KHz / ±4.5KHz
Harmonic Radiation	60dBc or -36dBm
Frequency Stability	±2.5 ppm at -10°C~+60°C
Output Connect	BNC (F)
Current Consumption	Standby: 120mA; Transmit: 420mA
Dimension (mm)	274.53 (W) x 242.69 (H)
Weight (with battery)	2170 g

WIRELESS CALLING SYSTEM



Table Caller
JD-170

- To be placed at specific place
- Mini-size with fashion appearance
- Enhance service efficiency
- Durable battery life



Table Caller
(Rechargeable)
TB-A06

- Blue light indication
- Rechargeable
- Waterproof-IP54
- One push button

Model	JD-170	TB-A06
RF Code Format	TI Format	
Transmitting Power	10 mW	
Battery Type	CR2450 3V/600mA	3.6~4.5V Battery package (3 pcs Ni-MH Rechargeable battery 1.2V)
Battery Life	100 times per day: about 1 Year	100 time per day (LED on to off 30 sec) : 30 day
Power Consumption	Sleep mode: <8uA TX mode : <60mA	standby mode : < 0.3mA Transmit : 50 ~ 57mA
Dimension (mm)	47 (W) x 41 (H) x 15 (D)	110 (Diameter) x 16.2 (H)
Weight (with battery)	22.5 g	55 g
Charger		

WIRELESS CALLING SYSTEM



RE-300T (RX)

- Reception panel for TB-A06
- Service indicator with 50 LED lamps
- Time reminder
- Relay TB-A06 signal to numeric pager A01 carried by waiter
- Data outputting capability

Model	RE-300T (RX)
Frequency RX	430~470 Mhz
Baud Rate (bps)	1200
Channel spacing	12.5KHz / 25KHz
Paging Sensitivity (dBm)	-122dBm @1200
Selectivity (25KHz)	≥ 50dB
Spurious & Image Rejection	≥ 50dBm
Frequency Stability	≤ ± 3ppm
Receiver Type	Synthesized
Frequency Deviation	±2.5KHz / ±4.5KHz
Alert Tone SPL	≥ 80dB@ 10cm
Operation Temperature	-10° ~ +60° C
Storage Temperature	-10° to +60° C
Power Supply	DC 5V / 1A
Dimensions (mm)	232 (L) x 170 (W) x 50 (H)

NURSE CALL SYSTEM



RE-300N (RX)

- Reception panel for JD-110BN
- Calling indicator with 50 LED lamps
- Time reminder
- Relay JD-110BN signal to alphanumeric pager carried by nurse
- Data outputting capability

Model	RE-300N (RX)
Frequency RX	430 ~ 470MHz
Baud Rate (bps)	1200
Channel spacing	12.5 / 25KHz
Paging Sensitivity (dBm)	-122dBm @1200
Selectivity (25kHz)	≥ 50dB
Spurious & Image Rejection	≥ 50dBm
Frequency Stability	≤ ±3ppm
Receiver Type	Synthesized
Frequency Deviation	±2.5KHz, ±4.5KHz
Alert Tone SPL	≥ 80dB@ 10cm
Operation Temperature	-10° ~ +60°C
Storage Temperature	-10° ~ +60°C
Power Supply	DC 5V / 1A
Dimensions (mm)	232 (L) x 170 (W) x 50 (H)

NURSE CALL SYSTEM



JD-110BN (TX)

- Calling help device used in hospital
- Dual buttons design, nurse and doctor
- Support pull cord (JD-210) design
- IR receiver for identification (JD-120)
- Ultra low power consumption (AC/DC)

Model	JD-110BN (TX)
Maximum Quantity	200
Frequency range	TX: 430 - 470
Modulation type	FSK
TX output power	10 mW
Maximum deviation	± 2.5kHz
Harmonic Radiation	60 dBc or less -36dBm
Frequency stability	±3 ppm at -10°C ~ +60°C
Antenna	wire 932mm
Active Voltage range	4.8~6.5V (DC 5V or Alkaline AA battery *4)
Current consumption	Standby : 180µA Transmit : 30mA (include LED)
Dimension (mm)	100 (W) x 150 (L) x 45.2 (H)
Weight (g)	315



JD-120A

- Alert disengaging device
- IR transmitter for identification (JD-110BN)

Model	JD-120A
Function	For clear emergency call sent from JD-110BN
Dimension (mm)	47 (W) x 70 (H) x 18 (D) (without neck wire)
Weight (g)	40g

EMERGENCY CALL SYSTEM



RE-300E (RX)

- Reception panel for JD-110BE
- Calling indicator with 50 LED lamps
- Time reminder
- Relay JD-110BE signal to alphanumeric pager carried by security
- Data outputting capability

Model	RE-300E (RX)
Frequency RX	430 ~ 470MHz
Baud Rate (bps)	1200
Channel spacing	12.5 / 25KHz
Paging Sensitivity (dBm)	-122dBm @1200
Selectivity (25kHz)	≥ 50dB
Spurious & Image Rejection	≥ 50dBm
Frequency Stability	≤ ±3ppm
Receiver Type	Synthesized
Frequency Deviation	±2.5KHz, ±4.5KHz
Alert Tone SPL	≥ 80dB@ 10cm
Operation Temperature	-10° ~ +60°C
Storage Temperature	-10° ~ +60°C
Power Supply	DC 5V / 1A
Dimensions (mm)	232 (L) x 170 (W) x 50 (H)

EMERGENCY CALL SYSTEM



JD-110BE (TX)

- Calling help device for emergency
- Patrol check point function
- Acrylic cover preventing from faulty press
- IR receiver for identification (JD-120)
- Ultra low power consumption (AC/DC)

Model	JD-110BE (TX)
Maximum Quantity	200
Frequency range	TX: 430 - 470
Modulation type	FSK
TX output power	10 mW
Maximum deviation	± 2.5kHz
Harmonic Radiation	60 dBc or less -36dBm
Frequency stability	±3 ppm at -10°C ~ +60°C
Antenna	wire 932mm
Active Voltage range	4.8~6.5V (DC 5V or Alkaline AA battery *4)
Current consumption	Standby : 180µA Transmit : 30mA (include LED)
Dimension (mm)	100 (W) × 150 (L) × 45.2 (H)
Weight (g)	315



JD-120

- Alert disengaging device
- IR transmitter for identification (RE-300BE)

Model	JD-120
Function	For clear emergency call sent from JD-110BN
Dimension (mm)	47 (W) × 70 (H) × 18 (D) (without neck wire)
Weight (g)	40g

PERSONAL CARING SYSTEM



Watch Transmitter
JD-170

- The Patient Call Watch is 100% waterproof
- Easy-to-carry to be wrist type
- Mini-size with fashion appearance
- Enhance service efficiency for patients
- Durable battery life
- The coverage can reach up to 0.8-1 KM in open space, while it's about 200-300 meters indoor



Necklace Caller
JD-100TC

- Water Resistant
- TX Frequency: 433.92
- standby mode : 1900day
- 20 Messages per day : 520day
- Dimension: 70.7(L0 x 47.5 (W) x 17.5 (H) mm

Model	JD-170	JD-100TC
RF Code Format	POCSAG	
Transmitting Power	10 mW	
Battery Type	CR2450 3V/600mA	
Battery Life	20 times per day 1 year	20 Messages per day 1 year
Power Consumption	Sleep mode:<8uA TX mode : <60mA RX Mode : <10mA	standby mode : 12uA Transmit : 55mA
Dimension (mm)	47 (W)×41(H)×15(D)	47 (W)×70(H)×18(D) (without cord)
Weight (with battery)	22.5 g	55 g (with battery)

RECEIVER-NUMERIC PAGER

AL-A01 / AL-901 / AL-202



AL-A01 (RX)

- Flagship model
- High sensitivity
- Top side LCD display
- Loud buzzer and strong vibration
- Memory Retention without battery



AL-901 (RX)

- Top read model
- PC and manual programmable
- Compact size
- Duplicate Message Detection



AL-202 (RX)

- Compact model
- PC and manual programmable
- Simple interface
- Real time clock, calendar

Model	AL-A01	AL-901	AL-202
Frequency	135~174, 430~470, 860~872, 929~932MHz		
Paging Sensitivity	512bps - 5uV/M, 1200bps - 7uV/M, 2400bps - 9uV/M		
Bit Rate	512 / 1200 / 2400bps for POCSAG, 1600 / 3200 / 6400bps for FLEX		
Channel Spacing	12.5KHz / 25KHz		
Code Format	POCSAG, FLEX		
Spurious Rejection	40 db below carrier		
Alert Tone Loudness	87db @ 10 cm		
Frequency Deviation	±2.5KHz / ±4.5KHz		
Capcodes	4 Capcodes for POCSAG, 16 Capcodes for FLEX		
Display	12 Digits		
Dimension (mm)	49(L)x 74.5(W)x 32(H)	43 (L) x 60 (W) x 18 (H)	61(L) x 41(W) x 17(H)
Weight (Without Battery)	76 g	39.5 g	32.5 g

RECEIVER- ALPHANUMERIC PAGER

AL-924 / AL-A25 / AL-A26



AL-924 (RX)

- Compact size
- Relatively large display
- Manual and PC programmable
- Ultra-low power consumption
- support English, Spanish, Portuguese, Russian, German, and French



AL-A25 (RX)

- Robust structure
- LED backlit display
- Manual and PC programmable
- 4 lines and 84 alphanumeric characters displayed in single page
- support English, Spanish, Portuguese, Russian, German, and French



AL-A26 (RX)

- Larger display
- 6-key
- Large memory size, total capacity 262,144 letters
- External LED indicator
- 5 set daily alarms, auto sleep capability

Model	AL-924	AL-A25	AL-A26
Key	3	4	6
Frequency	135~174MHz, 430~470MH, 860~872Mhz, 929~932MHZ		
Paging Sensitivity	512bps - 5μV/M, 1200bps - 7μV/M, 2400bps - 9μV/M		
Bit Rate	512 / 1200 / 2400bps for POCSAG, 1600 / 3200 / 6400bps for FLEX		
Channel Spacing	12.5KHz / 25KHz		
Code Format	POCSAG, FLEX		
Spurious Rejection	40db below carrier		
Alert Tone Loudness	87db @ 10 cm		
Capcodes	8 (POCSAG), 16 (FLEX)		
View Area (mm)	45 x 14.43	46 x 17.36	57.78 x 19.37
Dimension (mm)	64(L) x 43(W) x 20(H)	80(L) x 53(W) x 20(H)	
Weight	42.5 g	56 g	56.5 g
Alkaline Battery (Without Battery)	AAA	AA	

RECEIVER- ALPHANUMERIC PAGER

AL-A27 / AL-A28 / AL-A29



AL-A27 (RX)

- Shatter proof design
- Water and dust proof, IP67 approval
- Up to 6 RICs (capcodes) capacity in POCSAG format
- Memory retention during battery replacement
- 2.4V 350mAh Rechargeable Battery



AL-A28 (RX)

- High Sensitivity
- Water and dust proof, IP54 approval
- 6-key operation
- External LED indicator
- Compatible with rechargeable or AAA alkaline battery



AL-A29 (RX)

- Ultra-high sensitivity
- Strongest housing in tough environment
- Water and dust proof, IP67 approval
- Charger with relay output is optional
- Large Memory Size, total capacity 259,062 letters

Model	AL-A27	AL-A28	AL-A29
Key	4	6	6
Water / Dust Proof	IP 53 / 54 / 67	IP 54	IP 67
Frequency	135~174MHz, 430~470MH, 860~872Mhz, 929~932MHZ		
Paging Sensitivity (512 / 1200 bps POCSAG)	6 / 7 uV per meter	5 / 7 uV per meter	3 / 4 uV per meter
EIA Selectivity	60 dB ±25KHz		
Spurious Rejection	55 dB below carrier		
Image Rejection	50 dB below carrier		
Frequency Stability	-10° to +60°C (+25°C ref.)3 ppm for UHF, 10 ppm for VHF		
Frequency Deviation	±2.5 KHz / ±4.5 KHz		
Code Format	POCSAG / FLEX		
Transmission speed	512, 1200, 2400 bps for POCSAG, 1600, 3200, 6400 bps for FLEX		512 bps, 1200 bps, 2400 bps
Alert Tone Loudness	88db @ 10 cm	87db @ 10 cm	
Dimension (mm)	80(L) x 53(W) x 20(H)	79.7(L) x 52.7(W) x 24(H)	
Weight	56 g	56.5 g	89 g
Charger			

RECEIVER- TWO WAY PAGER

AL—125TR (POCSAG)



AL-125 TR

- POCSAG two way pager
- 4-key operation
- RTC function with system
- Larger display
- Respond or not, multiple message editable by software

Model	AL-125 / AL-A125 TR
Frequency	RX:135~174, 430~470, 929~932MHz TX:430~470, 860~932, 929~932MHz (AL-125TR Only)
Paging Sensitivity (512 / 1200 bps POCSAG)	6 uV / 7 uV per meter ; 2400bps - 9μV/M
EIA Selectivity	60 dB ±25KHz
Spurious Rejection	55 dB below carrier
Image Rejection	50 dB below carrier
Frequency Stability	-10° to +60°C (+25°C ref.) 3 ppm for UHF, 10 ppm for VHF
Frequency Deviation	±2.5 KHz / ±4.5 KHz
Code Format	POCSAG
Transmission speed	512 / 1200 / 2400 bps for POCSAG
Alert Tone Loudness	87db @ 10 cm
Dimension (mm)	80(L) x 54(W) x 20(H)
Weight	66.10 g
Water / Dust Proof	X
Charger	
Multi Charger	

RECEIVER- TABLE PAGER

TP161 Series (POCSAG)



TP161

- 4 Lines, Total 84 Alphanumeric One Page Display
- Large Screen: 120 x 44 mm (view area)
- 6 Keys Operation, Easy Operation
- Large Memory Size; Total Capacity 259,062 Letters
- General Message: 16 sets + Message Full: 10 sets, total capacity 20480 letters
- Personal Message: 10 sets, total capacity 1000 letters
- Mail Drop: 15 sets, total capacity 228,345 letters
- Support Languages: English, Spanish, Portuguese, Russian, German, and French
- Options:
 - 3 x AAA Rechargeable Battery for back up
 - Relay / Data output & External Antenna


Model	TP161
External Antenna	O
Relay Output	O
Key	6
Frequency	135~174MHz, 430~470MHz, 929~932MHz
Paging Sensitivity (No body effect)	23dBuV/M for 512 bps VHF (No body effect) 23dBuV/M for 1200 bps VHF (No body effect) 19dBuV/M for 512 bps UHF (No body effect) 19dBuV/M for 1200 bps UHF (No body effect)
EIA Selectivity	60 dB ± 25 KHz
Image Rejection	50 dB below carrier
Spurious Rejection	55 dB below carrier
Frequency Stability	-10° to 50°C (+25°C ref.) 7 ppm for UHF, 10 ppm for VHF
Frequency Deviation	±4.5 KHz
Code Format (POCSAG / FLEX)	8 / X
Transmission speed (POCSAG / FLEX)	512 bps / 1200 bps / 2400 bps ;
Alert Tone Loudness	98 dBA @ 30 cm
Dimension (mm)	182.3(L) x 114(W) x 99.7(H)
Weight	430 g (Without Battery)

RECEIVER- TWO WAY BEEPER GSM PAGER



GSM AL-A30G

- 8 Lines, Total 84 Alphanumeric One Page Display
- Large Memory Size; Total Capacity 325,000 Letters
- General Message: 16 sets + Message Full:10 sets, total capacity 45370 letters
- Personal Message: 10 sets, total capacity 17500 letters
- Mail Drop: 15 sets, total capacity 265,00 letters
- Blue Back-Light, Large Screen
- 7 Keys Operation, Easy Operation
- Selective PC or Hand Programmable
- IP67 Approval for Water-resistance and Dust-tight
- Lithium Rechargeable Battery
- Charger with relay output is optional
- NB / WB switch relay output is optional

Model	AL-A30G
Frequency	135~174MHz (Crystal type)
Paging Sensitivity	4 uV per meter for 1200 bps POCSAG
EIA Selectivity	60 dB ±25KHz
Spurious Rejection	55 dB below carrier
Image Rejection	50 dB below carrier
Frequency Stability	-10° to +60°C (+25°C ref.) 3 ppm for UHF, 10 ppm for VHF
Frequency Deviation	±2.5 KHz / ±4.5 KHz
Code Format	POCSAG / FLEX
Alert Tone Loudness	87db @ 30 cm
Transmission speed	1200 bps
Dimension	80(L) x 72(W) x 24.5(H) mm (without holster)
Weight	133 g (With Battery)
GSM Module Specification	
Quad-band	GSM 850 / 900 / 1800 / 1900 MHz class 4 (2 W)for 850 / 900 bands class 1 (1 W)for 1800 / 1900 bands
GPRS	class 10 (4 downlink, 2uplink, max 5) mobile station class B PBCCH supported CS 1...CS 4 supported
CSD (circuit switch data)	max 9.6 kb/s user data
Sensitivity (25°C)	-110 dBm (typ.) @850 / 900 , -109 dBm (typ.) @1800 / 1900
Power supply	3.00 tp 4.50 V
Power consumption	Power off :<90 uA, Idle mode2 DRX9: <0.99mA DRX5: <1.60mA Telephony GSM : <300mA GPRS class 10:<410mA
Operating temp (Ambient)	-40 to +85°C
Charger	

RECEIVER-WIRELESS LED DISPLAY

LDN3



LDN3

- Message can be entered through public paging system or TE505NA, TE300, TE310 & TE-100
- Transmitters with optional computer software
- 3 digits numeric display (4.75 x 3.5 inch), up to 899
- AC input, 100V-240V AC
- Available for wall-mount
- Programming through Min USB, USB interace
- Air off, turn off display only (900 send)
- Speaker 30 cm 99db

Model	LDN3
Display Mode	Numeric
Frequency	430~470MHz
Bit Rate	POCSAG: 512 / 1200 / 2400bps
Channel Spacing	12.5 KHz / 25 KHz
Code Format	POCSAG
Capcodes	6 Capcodes (POCSAG)
Digital	3
Dimension (mm)	Case: 390 x 172 x 52.5
Weight	1900 g

RECEIVER-WIRELESS LED DISPLAY

AS112 / AS112R (Relay)



AS-112 / AS-112 (Relay)

- Two Line Alpha LED Display
- 10 Characters per line
- One Line / Two Line switchable by air command
- Message can be entered through public paging system
- Please refer to our Pocsag Transmitters for on-site paging system (135~174MHz, 408~473MHz, 929~932MHz)
- Priority Message or priority capcode trigger relay output feature (for Model: AS112R only)
- Display memory of 163,200 bytes
- 4.75" characters can be read at a distance of up to 200 feet
- Display 10 characters per line
- Real Time Clock
- Wireless data input; provide 3 different data format:
- Text mode: Accept 2,000 characters per message. Option news and sports broadcast service via public paging system
- Transmitter and software are optional

Model	AS-112 / AS-112
Display Mode	Alpha and Numeric
Relay	AS112R
Frequency	135~174MHz, 430~470MHz, 929~932MHz
Bit Rate	POCSAG: 512 / 1200 / 2400bps Flex: 1600 / 3200 / 6400 bps
Channel Spacing	12.5 KHz / 25 KHz
Code Format	POCSAG / FLEX
Capcodes	6 Capcodes (POCSAG) / 16 capcodes (FLEX)
Array	16 x 160
Characters	10 / 4.75
Digital	X
Dimension (mm)	Case: 710 (L) x 160(H) x 70(D)
Weight	3,865 g

RECEIVER-WIRELESS LED DISPLAY

AS122 / AS122R (Relay)



AS-122 / AS-122 (Relay)

- Alpha LED display
- 20 characters per line
- Message can be entered through public paging system or TE-100 Transmitter with optional computer software
- Display memory of 163,200 bytes
- 4.75" characters can be read at a distance of up to 200 feet
- Display 20 characters per line
- Real Time Clock
- Wireless data input; provide 3 different data format :
- Text mode: Accept 2,000 characters per message. Option news and sports
- broadcast service via public paging system
- Transmitter and software are optional

Model	AS-122 / AS-122
Display Mode	Alpha and Numeric
Relay	AS122R
Frequency	135~174MHz, 430~470MHz, 929~932MHz
Bit Rate	POCSAG: 512 / 1200 / 2400bps Flex: 1600 / 3200 / 6400 bps
Channel Spacing	12.5 KHz / 25 KHz
Code Format	POCSAG / FLEX
Capcodes	6 Capcodes (POCSAG) / 16 capcodes (FLEX)
Array	16 x 320
Characters	20 / 4.75
Digital	X
Dimension (mm)	Case: 1313 (L) x 160(H) x 70(D)
Weight	6,930 g

RECEIVER-VOICE PAGER

VP-101 / VP-107



VP-101 (RX)

- Two tone decoding format
- 6 calls per channel, 4 individual and 2 group call
- 120 seconds memory, and large volume control knobs with on/off
- IP52 protection standard
- Monitor with carrier squelch, and 2 status LED



VP-107 (RX)

- Two tone decoding format
- 2 call per channel, 8 individual and 4 group call
- 480 seconds memory, and large volume control knobs with on/off
- IP54 protection standard
- Silent & priority scan, and 2 status LED

Model	VP-101	VP-107
Tone Coding	Two-Tone Sequential	
Frequency	VHF 135 ~ 174 MHz, Narrow band & Wide band	VHF 135 ~ 174 MHz, UHF 430 ~ 470 MHz
Channel Spacing	12.5 KHz / 25 KHz	
Paging Sensitivity	4uV per meter	
Alerting	4uV /m for VHF ; 3.5uV/m for UHF	
Adjacent channel selectivity	55dB ±25KHz	50dB+/-12.5KHz for VHF NB ; 60dB+/-25KHz for VHF WB, 50dB+/-12.5KHz for VHF NB ; 60dB+/-25KHz for UHF WB
Spurious Rejection	55dB below carrier	60dB below carrier for VHF ; 50 dB below carrier for UHF
1st Image Rejection	55dB below carrier	60dB below carrier for VHF ; 50 dB below carrier for UHF
2nd Image Rejection		60dB below carrier for VHF ; 60 dB below carrier for UHF
Frequency Stability	±10ppm for VHF ; ±3ppm for UHF	
Alert Tone	90dBa at 30cm(12")	93dBa at 30cm (12")
Audio Output	87dBa at 30cm(12")	90 dBa at 30cm (12")
Power Consumption	8.2mA	10mA
Power Supply (rechargeable battery)	One 1.5V AA-Size Ni-MH	Li-con battery 3.7V 800mAh
Battery Life	About 20 days (10 days without battery saver)Based on 8 hours per day & 5 messages w/ 30 sec. each	About 14 days(7 days without battery saver)
Dimension (mm)	80(L) x 53(W) x 24.5(H)	99(L)x59.5(W)x24.5(H)
Weight (with battery)	177g	
Accessories		

RECEIVER-VOICE PAGER

VP-200 Pro / VP-220



VP-200 Pro (RX)

- Two tone decoding format
- 12 call per channel, 8 individual and 4 group call
- 480 seconds memory, and large volume control knobs with on/off
- IP54 protection standard
- Silent & priority scan, and 6 status LED



VP-220 (RX)

- Two tone decoding format
- 12 call per channel, 8 individual and 4 group call
- 480 seconds memory, and large volume control knobs with on/off
- IP54 protection standard, and Caller ID / Date / Time display
- Silent & priority scan, and 6 status LED

Model	VP-200 Pro	VP-220
Tone Coding	Two-Tone Sequential	
Frequency	VHF 135 ~ 174 MHz, UHF 430 ~ 470 MHz	
Channel Spacing	12.5 KHz / 25 KHz	
Paging Sensitivity	4uV per meter	
Alerting	4uV /m for VHF ; 3.5uV/m for UHF	
Adjacent channel selectivity	50dB+/-12.5KHz for VHF NB ; 60dB+/-25KHz for VHF WB, 50dB+/-12.5KHz for VHF NB ; 60dB+/-25KHz for UHF WB	
Spurious Rejection	60dB below carrier for VHF ; 50 dB below carrier for UHF	
1st Image Rejection	60dB below carrier for VHF ; 50 dB below carrier for UHF	
2nd Image Rejection	60dB below carrier for VHF ; 60 dB below carrier for UHF	
Frequency Stability	±10ppm for VHF ; ±3ppm for UHF	
Alert Tone	92 dBa at 30cm (12")	
Audio Output	90 dBa at 30cm (12")	
Power Consumption	9mA	
Power Supply (rechargeable battery)	3 x 1.2V AAA 800mAh Ni -MH	3 x 1.2V AAA 850 mAh NiMH
Battery Life	About 20 days (10 days without battery saver) Based on 8 hours per day & 5 messages w/ 30 sec. each	About 14 days (7 days without battery saver) Based on 8 hours per day & 5 messages w/ 30 sec. each
Dimension (mm)	104(L)x 62(W) x 30(H)	
Weight (with battery)	185g	186 g
Accessories		

TRANSMITTER-DESKTOP TRANSMITTER

Alphanumeric Transmitter TE-510 series



TE-510 Series

- Desk type of transmitter for Alphanumeric message delivery
- Support protocol for COMP1, COMP2, SCOPE, GACOM2 and TAP
- Alarm input 7 pin/ dry contact, 0 and 5V low active
- Range test and 99 canned message
- TE-505 A - External PS2 keyboard option
- TE-505 AD - External PS2 keyboard & PABX option
- TE-505 ADV - External PS2 keyboard, PABX & Voice Pager option

Model	TE-510 A	TE-510 AD	TE-510 ADV
Dimension (mm)	154 (L) x 190 (W) x 64 (H) mm (Without Antenna and Keyboard)		
Weight (with battery)	390g (Without Antenna and keyboard)		
Output Power	1W		
Frequency range TX	VHF 135~174 MHz, UHF 430~470MHz		
Channel Spacing	12.5 KHz / 25 KHz		
Harmonic Radiation	60dBc or less -36dBm		
Frequency Stability	±2.5 ppm at -10°C~+60°C		
Output Connect	BNC (F)		
Current Consumption	Standby: 120mA; Transmit: 420mA		
Line Impedance (Off-hook)		600 ohms	
Ring Detect Sensitivity		28~150 Vrms	
Loop Current		10~100 mA	
DC On-Hook Impedance		10M ohms (MIN)	
DTMF Input Signal Level		-36dBm (MIN)	
Two Tone Freq. Accuracy		±0.15%	
RS-232 Port PROTOCOL		•	
PS2 Keyboard		•	
Tone only		•	
Numeric		•	
Alpha		•	
Pre-programmed Msg		•	
PABX		•	•
Voice			•

TRANSMITTER-DESKTOP TRANSMITTER

TE-505 series



TE-505 Series

- Wireless POCSAG Transmitter
- Desk Type
- User friendly interface
- 15 Buttons
- Active Voltage Range: DC 8.4V
- Output power up to 1 watt
- Data output function via USB
- Manual programmable

Model	TE-505 NA	TE-505 RA	TE-505 RN
Dimension (mm)	154 (L) x 190 (W) x 64 (H) mm (Without Antenna and Keyboard)		
Weight (with battery)	390g (Without Antenna and keyboard)		
Output Power	0.5W / 1W		
Frequency range TX	VHF 137~170 MHz, UHF 430~470MHz		
Channel Spacing	12.5 KHz / 25 KHz		
Harmonic Radiation	less -25dBm		
Frequency Stability	VHF <= ±10 / UHF <= ±3ppm		
Output Connect	BNC (F)		
Restaurant Pager	O	X	X
Canned Message	X	Alphanumeric	Numeric
POS Link	O	X	X
Compatible Pager	AL-A02	AL-924	AL-A01
	AL-A05	AL-A25	AL-A03
	AL-A06	AL-A26	


TRANSMITTER-PORTABLE TRANSMITTER

TE100U series



TE-100U Series (1, 4, 8 key)

- Selective 1, 4, 8 Keys
- Frequency :138-174,430-470 MHz
- Active Voltage Range: 3.45~4.5V (3 AAA Size battery)
- Message: Max. 640 letters
- USB charging and programming
- Multi-Protocol including COMP1, COMP2, SCOPE, TAP Protocol, GACOMP2, ESPA Protocol 4.4.4
- Key can be assigned as any number
- Built-in battery check

Model	TE-100U 1 Key	TE-100U 4 Key	TE-100U 8 Key
Message	Max. 640 letters		
Frequency range TX	VHF 138~174MHz, UHF 430~470MHz		
Modulation Type	FSK		
Harmonic Radiation	-60dBc or less -36dBm		
Frequency Stability	±3ppm at -10°C~+60°C		
Operation Current	SMA (F)		
Current Consumption	Standby: 30µA; Transmit: 350mA		
Dimension	58 (L) x 113 (W) x 23 (H) mm (Without Antenna)		
Weight	Approximately 85 g (Without Battery & Antenna)		
TE 100U Series Charger			







PORTABLE POCSAG TRANSMITTER

TE-100 series



TE-100 Series

- Portable Type
- Convenient
- Friendly User Interface
- Manual programmable
- Data output function via USB
- High penetration capability
- Active Voltage Range: 3.45~4.5V (3 AAA Size battery)

Model	TE-100 NA	TE-100 RA	TE-100 RN
Dimension (mm)	58 (L) x 113 (W) x 23 (H) mm (Without Antenna)		
Weight (with battery)	Approximately 85 g (Without Battery & Antenna)		
Output Power	0.5W		
Frequency range TX	VHF 137~170 MHz, UHF 430~470MHz		
Channel Spacing	12.5 KHz / 25 KHz		
Harmonic Radiation	less -25dBm		
Frequency Stability	VHF <= ±10 / UHF <= ±3ppm		
Output Connect	BNC (F)		
Restaurant Pager	O	X	X
Canned Message	X	Alphanumeric	Numeric
POS Link	O	X	X
Compatible Pager	 AL-A02	 AL-924	 AL-A01
	 AL-A05	 AL-A25	 AL-A03
	 AL-A06	 AL-A26	
TE 100 Series Charger			

TRANSMITTING ENHANCEMENT

RP-125



RP-125

- Address filtration
- Error correction
- 1/5W options

Model	RP-125
frequency range TX	VHF 135~174 Mhz, UHF 430~470 Mhz
Channel Spacing	12.5KHz / 25KHz
Output Power	1W / 5W
Modulation Type	F3D, F3E
Intermediate Frequency	45 MHz & 450 KHz
Power Supply	DC 10V~14V
Current Consumption	Standby: 100mA; TX (5W): < 1.2~1.8A; TX (1W): < 0.5 ~0.9A
Transmitter	
Carrier Power	HI: 5W ±0.5dB; LO: 1W ±0.5dB
Frequency Stability	±5 ppm@VHF; ±3ppm@UHF
Frequency Deviation	12.5KHz Channel Spacing: 2.5KHz ~ 1.8KHz (Peak) 25 KHz Channel Spacing: 5KHz ~ 3.8KHz (Peak)
Adjacent Channel Power	< 80dBc
Conducted Spurious Emission	-57dBc
Receiver	
Sensitivity	-WB 512 bps<-120 dBm, WB 1200bps<-199 dBm, WB2400 bps <-116 dBm
Receiver AF Response	DC ~ 1.2KHz-3dB
Adjacent Channel Selectivity	12.5 KHz Channel Spacing: > 52 dB 25 KHz Channel Spacing: > 60dB
Spurious Response Rejection	70 dB
Image Response	> 70 dB
IF Response	> 70 dB
Intermodulation Response Rejection	±25KHz / 50KHz: 65dB; ±50KHz / 100KHz: 65dB
Dimension (Without Antenna)	65.50 (W) x 30.05 (H) x 95.00 (D) mm
Weight (with battery)	Approximately 245g (Without Antenna)

TRANSMITTING ENHANCEMENT

TA-500



TA-500

- Output power enhancement up to 5W
- BNC connector
- No need further setting

Model	TA-500
Working Frequency	430 ~ 470 MHz
Input Power	30mW~1W, 15 dBm ~ 30 dBm
Channel Spacing	12.5KHz / 25KHz
Output Power	5W / 37dBm ±0.5dB @input 15 ~30 dBm, with Auto power
Input / Output Impedance	50ohm
Supply Voltage	DC 12V ±5%
Supply Current	3A
Operation Current	1.4 ~ 1.7A
Operation Temperature	0~+70°C
Typical gain Without APC	22 ~ 25 dBm
Dimension (mm)	70(W) x 30(H) x 95(D)

TRANSMITTING ENHANCEMENT

TX-125 series



TX-125



TX-125EN



TX-125ENA

- Wireless POCSAG Transmitter
- Compact size
- Programmable up to 16 channels
- Active voltage range: DC 12V
- Output power up to 5 watt (HI)
- RS232 port for programming
- Carrier Detect / Output
- Digit Modulation Input
- Audio Modulation Input / Output
- Push to Talk input
- This Paging System Transmitter can be used to Enterprise, Fire station, Factory, Warehouse, Hospital, Wholesale etc.

Model	TX-125	TX-125 EN	TX-125 ENA
Alarm Input			•
POCSAG Encoder		•	•
Frequency	VHF 135~174 Mhz, UHF 430~470 MHz		
Modulation Type	F3D, F3E		
Channel Spacing	12.5 KHz / 25 KHz		
Output Power	1W / 5W		
Maximum Deviation	±4.5K		
Harmonic Radiation	60dBc or less -36dBm		
Power Supply	DC 10V 14V		
Frequency Stability	±2.5 ppm at -10°C~+60°C		
Current Consumption	Standby: 100mA; TX(5W) < 2A; TX(1W) < 1A		
Dimension (Without Antenna)	65.50 (W) x 30.05 (H) x 95.00 (D) mm		
Weight (with battery)	Approximately 245g		

POCSAG TRANSMITTER

TX-200 series

- TCP/IP or Telephone interface
- 16 channels
- Multiple Protocol Support (COMP1, COMP2, SCOPE, GACOMP2, TAP, ESPA)
- Send text message through PBX phone system
- Voice message to fire pager is also available
- Alternative for enterprise instant message
- Wide coverage on-site paging system
- 2 power settings to choose (1W/5W)
- This Paging System over PBX can be used to Enterprise, Fire station, Factory, Warehouse, Hospital, Wholesale etc.



Model	TX-200	TX-200 EN	TX-200 ENI	TX-200ENP	TX-200 ENT	TX-200 ENA
Amplifiers	•	•	•	•	•	•
POCSAG Encoder		•	•	•	•	•
Alarm input			•	•	•	•
TCP/IP					•	•
PABX				•		
Voice application				•		
AES encryption						•
RF Output Connect	BNC (F)					
Power Supply	DC 12 V (3A)					
Other output port	RS232/ Ethernet / Alert input					
Operation Temperature	-10 ~ +60°C					
Storage Temperature	-10 ~ +60°C					
TRANSMITTER						
Frequency	VHF 144~170 MHz ;UHF 430MHz ~ 470MHz					
Modulation type	F3D,F3E					
Channel spacing	1.25 KHz					
Output power	1W/5W					
Maximum deviation	± 2.5kHz / ± 4.5kHz					
Baud Rate	512 / 1200 bps					
Conducted Spurious Emission	less - 57dBc					
RECEIVER						
Sensitivity (@ 12dB SINAD)	< -117dBm					
Adjacent Channel Selectivity	12.5kHz >52dB/25kHz >60dB					
Dimension (mm)	89.0(W) x 30.0(H) x 105.3(D)					
Weight	270g					

DATA RECEPTION

RX-100 series



RX-100

RX-100

- POCSAG receiver
- RTC function with system
- LED indicator
- RS485 interface of installation with PC

RX-100F

- POCSAG receiver
- 100K RICs capacity with filtering function.
- Relay output
- Terminal block/USB power supply

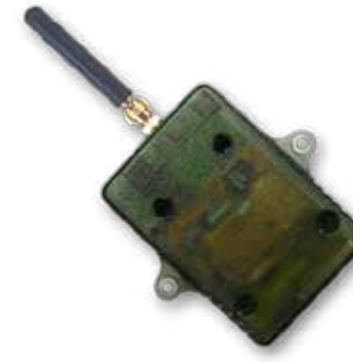
RX-100A

- POCSAG receiver
- 100K RICs capacity with Advanced Encryption Standard
- Relay output
- Terminal block/USB power supply

Model	RX-100	RX-100F	RX-100A
MCU	RENESAS RX-210		
Frequency	168-174, 430-450, 450-470 MHz		
Max Deviation	± 4.5kHz or ± 2.5kHz		
Harmonic Radiation	- 60 dBc or less -36dBm		
Frequency Stability	3 ppm at -10°C ~ 60°C		
Antenna	50Ω SMA (F)		
Data Interface	RS-485, TCP/IP	USB	
Prog. Interface	USB		
Power Source	5V DC USB Jack/terminal block		
POCSAG Receiver	•	•	•
RIC Filtration		•	•
AES Decryption			•
Relay Output		•	•
Dimension (mm)	80(W) x 115(H) x 20(D) mm		
Weight	Approximately 205 g		

WIRELESS REMOTE CONTROL MODULE

LRCM

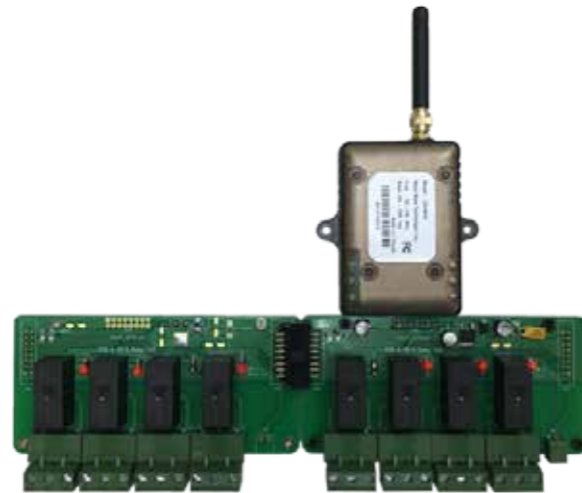


LRCM

- Serial data out and 8 switch output for device on/off
- Controlled through public paging system
- Antenna external with SMA connect
- Synthesized or Crystal type

Model	LRCM
Funtion	Control device ON / OFF
Frequency	138~174MHz, 430~470 MHz, 929~932MHz
Paging Sensitivity	5-12V
Bit Rate	POCSAG: 512 / 1200 / 2400bps
Channel Spacing	12.5 KHz / 25 KHz
Code Format	POCSAG, FLEX
Capcodes	8 Capcodes for POCSAG
Dimension (mm)	53(L) x 79(W) x 20(H)
Weight	Approximately 65 g

WIRELESS RF 4 /8 RELAY MODULE



8 Switch output for control 8 devices on/off and serial data out

Antenna connection: Externall with SMA connect (option)

Output speed: 4800, 9600bps

Data Format: Numeric, Alpha, Binary

4 Channel Relays or 8 Channel Relays (option)

POCSAG / FLEX telemetry module

ADDITIONAL INFORMATION OF REALY :

- 1 pole 16 A, 1 form C (CO) contact
- Coil voltage: 12VDC
- Contact rating: 24VDC, 250VAC
- DC coil 530 mW
- 5kV/10mm coil-contact, reinforced insulation
- Ambient temperature 70°C (special applications 85°C)
- Flux proof

Model	LRCM-R
Frequency	168-174, 430-450, 450-470 MHz
Maximum Deviation	±2.5 KHz / ±4.5 KHz
Harmonic Radiation	- 60 dBc or less -36dBm
Frequency Stability	±3 ppm at -10°C ~ +60°C
Antenna	50Ω SMA (F)
Data Interface	UART TTL
Prog. Interface	2.5 earphone jack
Power Source	5V DC
Dimension	LRCM :5.3(L) x 8(W) x 2(H), Relay onboard PCB (each piece): 13 x 6 x 3.1 CM
Weight	Approximately LRCM :65g, Relay onboard PCB (each piece) :87g

VOICE PAGER

- Single or 5-Channel Models
- Wideband Receiver Design
- Expanded Stored Voice
- Message Management
- Supports 10 two-tone pairs and 5 individual long-tone alerts.
- Silent Scan (5-Channel Model)
- Priority Scan (5-Channel Model)
- Probability Scan (5-Channel Model)
- Customizable Alert Tones
- Customizable Function Mode Announcement
- Battery Level Announcement


Model	VP-300
Frequency	VHF 135~174 MHz ; UHF 404MHz ~ 512MHz
Channel spacing	12.5/25 KHz
Alerting	VHF 4uV/m ; UHF 3.5uV/m
Adjacent channel selectivity	50dB ±12.5KHz for VHF NB, 60dB ±25KHz for VHF WB 45dB ±12.5KHz for VHF NB, 50dB ±25KHz for UHF WB
Spurious & Image Rejection	VHF ≥55dBm/UHF ≥50dBm
Frequency Stabilit	VHF ±10ppm/UHF ±3ppm
Audio Output	90dBa at 30cm (12")
Alert Tone	93dBa at 30cm (12")
Power Supply	3.7V 1800mA Li-ion Battery
Dimension (mm)	106.7(L)x61(W)x31(H)
Weight	


The great varieties we offer are :

- System solutions for hospitality, hospital, caring center or on-site paging.
- Wireless transmitter and receiver. Receivers with various types such as Tone only, Numeric, Alphanumeric, Voice pager or LED displays. IP standard are available. Transmitter with frequency (VHF) 138-174 MHz, (UHF) 430-470 MHz and 868.25 MHz. Output power in wide range 10mW to 5W.
- Wireless data-transmitting or wireless control usage.



WWW . G A P O L L O . C O M . T W

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