



PAUMAX OY · AINA WIRELESS INC

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User Interface Specification

AINA WIRELESS INC

PTT Remote-Speaker-Microphone

Version A.06

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1. SCOPE

This document defines the user interface functionality of Aina PTT remote speaker microphone devices. The device has RGB led for providing feedback and state information to the user, which is complemented with audio feedback through the speaker. User can interface with the device using the buttons.



2. LEDS

2.1. States

RSM has multiple states which changes through user interaction or through AG (Audio gateway, f.e. mobile phone or radio). State patterns are repeating, i.e. they will be repeated after the defined interval until the state is changed. Following led patterns are defined:

STATE	COLOR	PATTERN	INTERVAL
Connectable	Green	3 blinks (100ms each)	3500ms
Pairable	Green	1 blink (100ms)	100ms
Connected	Blue	2 blinks (100ms each)	3700ms
Call setup	Purple	1 blink (100ms)	100ms
Active	Blue	1 blink (100ms)	1900ms
Active, MUTED	Blue	2 blinks (100ms each)	1800ms
DFU state	Green	continuous	-
DTM state	Purple	continuous (all leds on)	Impossible with normal FW
Charging	Red	continuous (other leds mixed in)	-
Charging, FULL	Green	continuous (other leds mixed in)	-
Low battery	Red	Same pattern as the state would have normally, but color RED	-

2.2 Events

Events are non-repeating LED patterns that are triggered by certain event. Following patterns are defined:

EVENT	COLOR	PATTERN	NOTE
Power on		1 blink (2000ms)	-
Power off		1 blink (2000ms)	-
SW reset		1 blink (5000ms)	on until restart
Link Loss		3 blinks (100ms each)	repeats on top of Connected state with approx 15s interval.
Covert toggle		1 blink (2000ms)	-
Active LED toggle		1 blink (2000ms)	-
PTT pressed		continuous	continues until button released (in certain states)
PTTS pressed		continuous	continues until button released (in certain states)

3. TIMEOUTS

Some of the states have timeouts defined, which will trigger an event if time is exceeded. Also certain events will trigger an timeout.

TRIGGER	DURATION	ACTION	NOTE
Enter Connectable state	300s	Shutdown	-
Enter Pairable state	120s	Shutdown	-
Link is lost	300s	Shutdown	Link loss is announced with beep and LED pattern every 15s



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4. BUTTONS

Button presses have 3 different lengths of presses; short (less than 2s), long (more than 2s) and very long (more than 5s). Each length can trigger a different action in different states. Following actions are defined:

5. ACTIVE LEDS DISABLE -MODE

Active LEDs Disable -mode will disable the state LEDs for **Connected, Call establishment and Active** - states. Event LED indications, audio routing and audio feedback are unaffected by Active LEDs Disable - mode.

6. COVERT MODE

In covert mode all LEDs and speaker are shut off. Device will not give any LED indication, even charging and power off indications are suppressed. Even though speaker is disabled, microphone (internal or wired) will work as normal. If a headset is connected, incoming audio and audio feedback notifications will be routed to the headset.

7. AUDIO FEEDBACK

EVENT	TONE	NOTE
Pairing successful	short beep	-
Power on	4 note rising scale	-
Power off	4 note falling scale	-
Reconnect attempt	short beep	-
Cancel/end call	short beep	-
Reset paired devices	long low double beep	-
Mute on	short high beep	-
Mute off	short high beep	-
Audio transfer	short beep	When AG request audio switch repeats on top of
Link loss	short beep	Connected state with approx 15s interval.
Low battery	warning tone	-
Out-band ring tone	Ride of the Valkyries	-
Covert toggle	short beep	-
Active LED toggle	short beep	-
Reconnect success	beep	-