

ATK-100

aiTalk™ Mobile Phone Mate

aiTalk™ Mobile Phone Mate is an accessory that enables network-free communication over several miles. It connects to smartphones via Bluetooth, utilizing AI high-fidelity voice processing and TurMass™ wireless technology to establish direct long-distance PTT (Push-to-Talk) voice intercom calls between users, while supporting the transmission of text, pictures, location, and other data.

Main Features

- TurMass™ ultra-long-distance wireless technology enables communication distance up to 10 km@100mw
- Support Point-to-Point, Point-to-Multipoint network
- AI high-fidelity voice processing technology, high voice quality, MOS value greater than 4.0
- Ultra-low power consumption, operating time per charge cycle more than 40 hours
- Support text, picture, location information sharing, offline map download management
- Bluetooth connection to mobile phone, easy to use



Application Topology



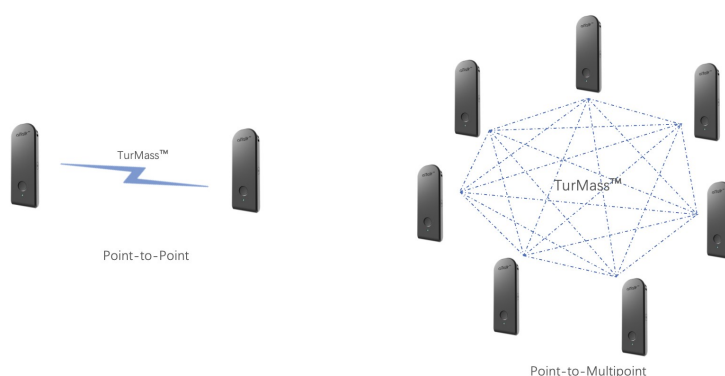
Application Scenarios



Specifications

	Product Model	ATK-100
ATK-100	Operating Frequency	470 MHz ~ 510 MHz
	Transmit Power	20 dBm
	Receiving Sensitivity	-128 dBm @ 1.8 kbps
	Communication Distance	10 km
	Network	Point-to-Point, Point-to-Multipoint
	Bluetooth	Bluetooth 5.0
	Battery Capacity	400 mAh
	Operation Hours	40 h (5% receiving, 5% sending, 90% standby, 5-5-90 usage model)
	Standby Time	5 Days
	Button	On/Off button, PTT button
	Indicator Lights	Battery level, call and connection indicator
	OTA	Upgrade terminal firmware via App
	Charging Port	Type-C
	Size	86 mm x 29 mm x 11 mm
	Weight	30 g
App	Platforms	iOS
	Contact Management	Friends management, devices matching, team and group creation
	Chat and Message	PTT voice, location, text and other data transmission
	Positioning	Location information sharing and offline map download
	Data Security	Support data encryption
	Data Storage	Support local data cache

Wireless Networking



App Interfaces

