ATK-100 aiTalk Long-Range Off-Network Mobile Companion

aiTalk is an innovative mobile accessory product. It connects a user's mobile phone via Bluetooth and utilizes AI high-fidelity voice processing and TurMass™ long-range wireless communication technology to enable long-distance PTT voice calls and communication without relying on 4G/5G networks.

In addition to voice communication, the product also supports transmission of voice, text, and location information between aiTalk users.

Key Features

- TurMass™ ultra-long-distance,low-power voice transmission
- AI high-fidelity voice processing, MOS score above 4.0
- Streaming voice intercom with minimal delay for a superior user experience
- Point-to-Point and group networking,suitable for multi-user collaboration
- Low power consumption and ultra-long standby, over 36 hours operation per charge
- Supports voice,text, and location data transmission
- Bluetooth connectivity with smart phones for simple and easy operation

Application Topology

aiTalk APP   aiTalk   TurMass™   aiTalk   aiTalk APP

Typical User Scenarios

Outdoor exploration

Event coordination

Patrol and security
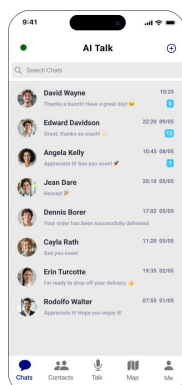

Overseas travel

Field Operations

Border trade

Technical Specification

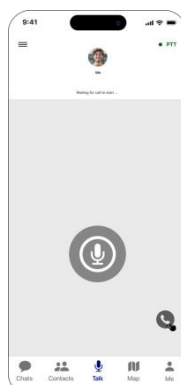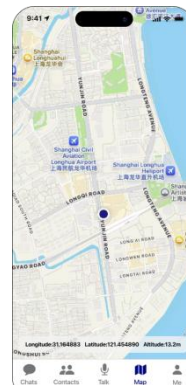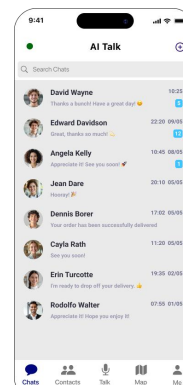| ATK-100	Model	ATK-100CN	ATK-100NA	ATK-100EU
	Operating Frequency	470~510 MHz	902~908 MHz	863~870 MHz
	Transmit Power	Typical 17 dBm　(50mW)		
	Receive Sensitivity	Typical -132 dBm @ 1.8 kbps		
	Communication Range	>3 km @ 50mW (open area)		
	Wireless Networking	Relay、Mesh		
	Bluetooth	Version 4.0 or above		
	Battery Capacity	400 mAh		
	Operating Time	36 hours		
	Buttons	Power button		
	LED indicator	Multi-color, connection status, charging indicator		
	OTA Upgrade	Supported via app-connected Bluetooth firmware update		
	Charging Interface	Type-C, 5 V/400 mA		
	Dimensions	92 mm x 33 mm x 12.8 mm		
	Weight	36 g		
APP	Platforms	iOS，Andriod		
	Contact Management	Supports friend adding and automatic device pairing Group and team creation features		
	Chat&Message Transmission	Point-to-Point or group communication		
	Positioning Function	Supports Location sharing and offline map management		
	Data Security	Supports encrypted or non-encrypted data transmission options		
	Data Storage	Supports local data caching		

APP 界面

Login

Contacts

PTT

Maps

Chat