

FULL DUPLEX TACTICAL COMMUNICATIONS SOLUTION

ANT FULL DUPLEX PTT

FCS

Products

ANT TACTICAL SYSTEM (ANT TACTICAL SYSTEM) is a coordinated solution for vertical command and horizontal coordination, as well as a comprehensive solution equipped with AI steady state noise reduction and pulse noise reduction hearing protection, which can be trusted as a reliable solution. It can realize voice signal mixing and voice routing control between wireless intercom system and external original intercom communication system. It can realize the combined use of multiple radios and wireless intercom to improve the efficiency of grass-roots command and soldier communication, so that the horizontal coordination and contact with the same level as well as the vertical command and contact with the upper and lower levels can be effectively coordinated. Can be widely used in the military and police users in ordinary and high noise bad environment and shooting training, cabin communication, small team networking and other needs. Adaptable and compatible with a variety of radios and communication headsets, without increasing the original half-duplex conventional, digital trunking, tactical frequency-hopping communication walkie-talkie channel under the premise of increasing communication redundancy, realizing the effective combination of short-range full-duplex intra-team networking and long-range half-duplex communication.

Full-duplex intercom mode allows short-range headset-to-headset communications in high-noise environments without the use of an external communications radio. The full-duplex feature allows 4-8 team members to speak simultaneously within a 100-500 meter radius, with no limit on the number of listeners. Voice calls are hands-free and can be activated by voice-activated (VOX) or push-to-talk buttons. The dual PTT function on the ANT PTT makes it easy to distinguish between intercom control and external radio call control. The function buttons on the main body of the ANT PTT allow you to switch the power and noise reduction mode required for different task environments. The headset uses specialized digital circuitry that automatically processes and filters impulse noise that is harmful to hearing and enhances environmental nuance perception. It provides a first-class listening and communication experience both in and out of noise.



The FCS Ant Full Duplex PTT is a full-duplex, hands-free tactical communications device that can form a self-organizing network without the need for relays between devices. It has a wide range of applications and is suitable for a variety of environments and tasks. It is easy to operate and improves the efficiency and safety of mission execution.



Product Features

Full Duplex

full duplex hands-free communication

No need to press to make a call, freeing up your hands

A

STEADY-STATE NOISE REDUCTION

Intelligent Steady State Voice Noise Reduction

Intelligent filtering of ambient noise Clear delivery

DOUBLE

ENCRYPTION

Double encrypted communication

Independent autonomous encoding + AES256 two-way encryption

CPS

SOFTWARE

CPS manipulation software

Support WINDOWS PC Upgrade and parameter settings

External

RADIOS

Supports external radio communication

Support external communication radio to access the private network intercom

DECENTRALIZATION

Decentralization Communications self-organizing network

Self-organizing communication network for dynamic updates without trunking

LOW

RECOGNITION INDICATOR

Low-recognition design for indicator lights

Low recognition, easy to camouflage.

EMI

EMI Anti-Electromagnetic Interference

Circuitry with built-in anti-electromagnetic interference design

Call

PRIORITIZATION

call priority

Prioritize calls on demand

HIGH RANGE

LOW POWER CONSUMPTION

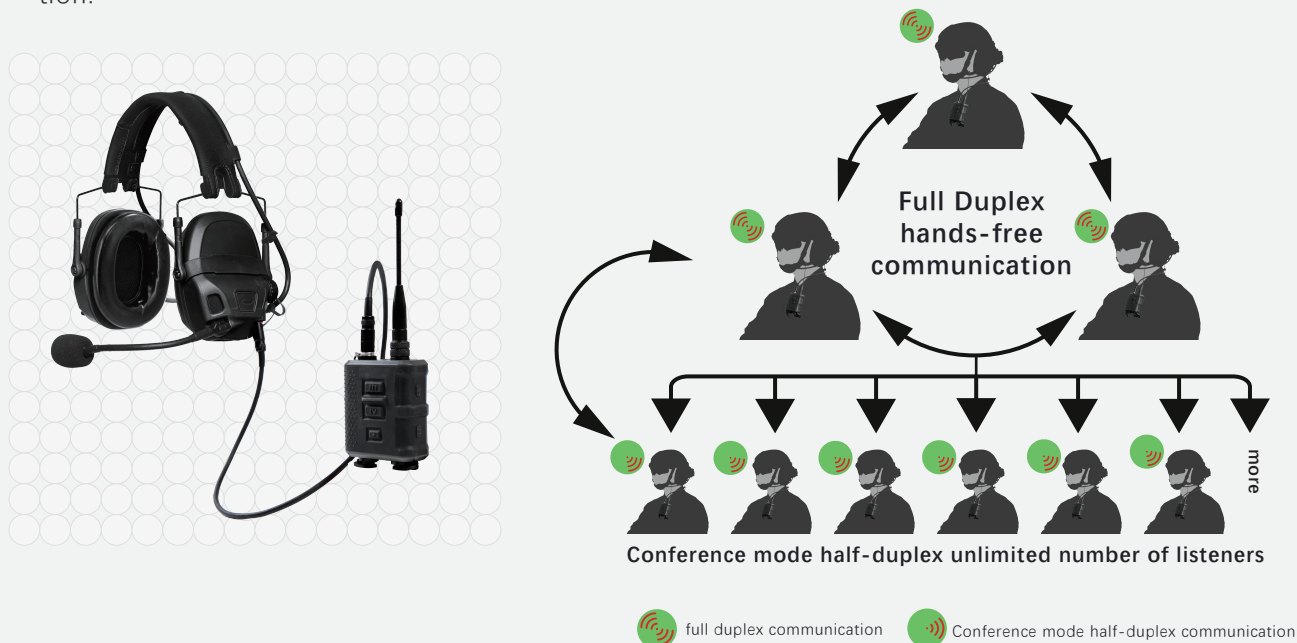
Low power consumption High endurance

Built-in 1500mAh lithium battery theoretically lasts up to 15~25 hours of continuous use.

COMMUNICATION CONNECTION SCHEMATIC

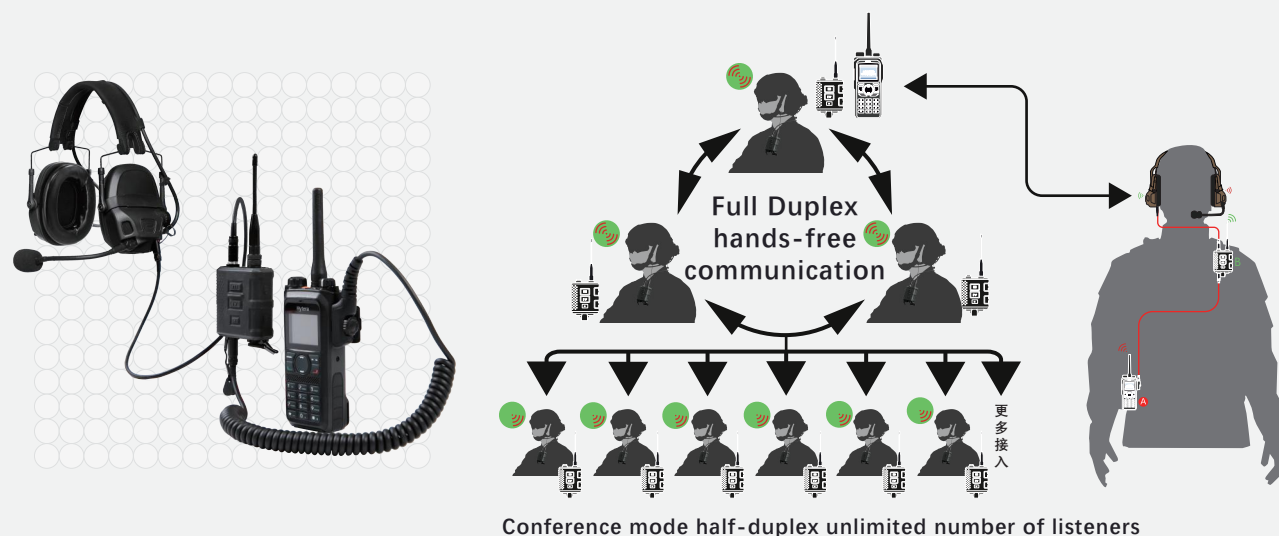
full duplex communication 3+N Dynamic switching of communication modes

Support any three team members (dynamic switching) simultaneously online full-duplex hands-free communication and access to multiple devices for half-duplex mode communication.



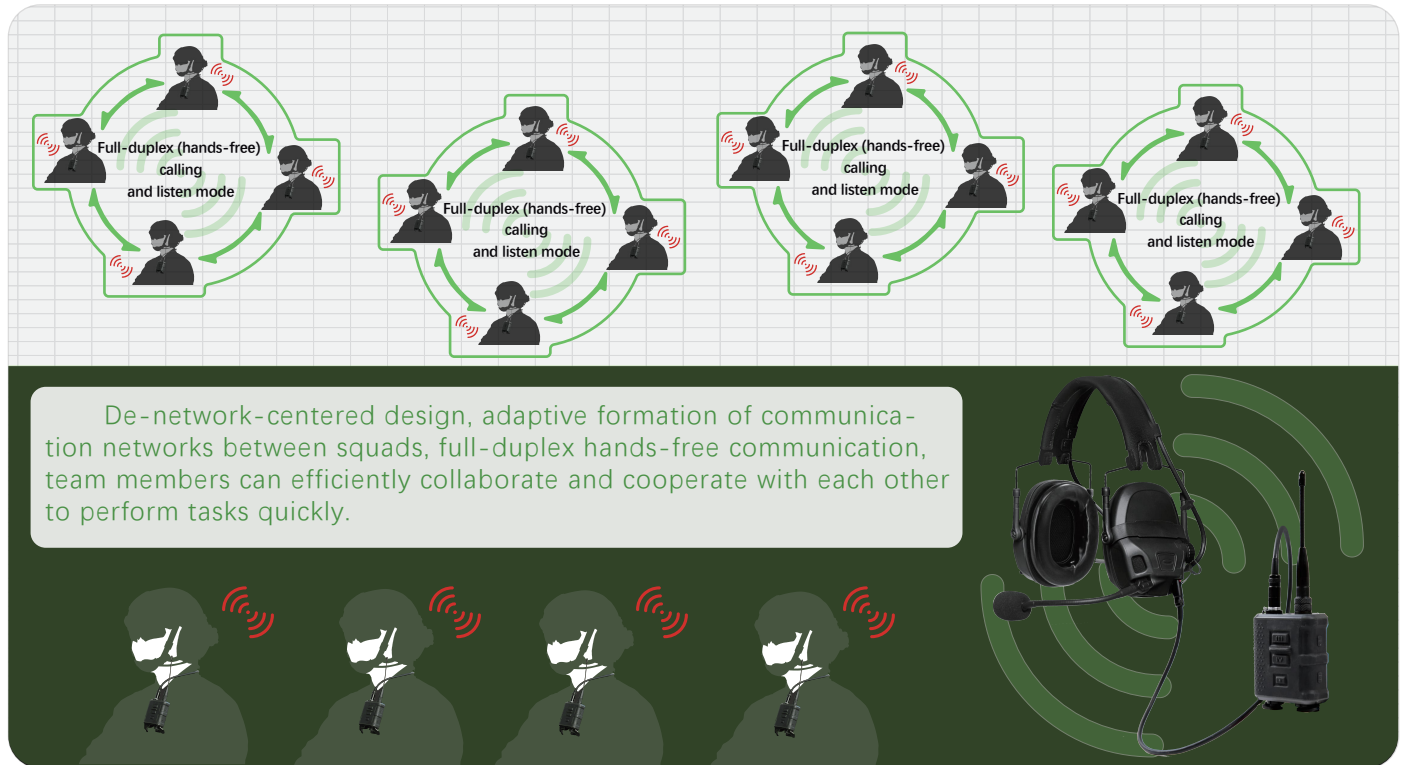
Full-duplex and radio private network communications

Intercom full-duplex and radio private network communications by connecting FCS AMP tactical communications headsets, FCS ANT full-duplex PTTs, and radios



DECENTRALIZATION

SELF-ORGANIZING COMMUNICATION NETWORK FOR DYNAMIC UPDATES WITHOUT TRUNKING



AI STEADY-STATE NOISE REDUCTION

INTELLIGENT STEADY STATE VOICE NOISE REDUCTION

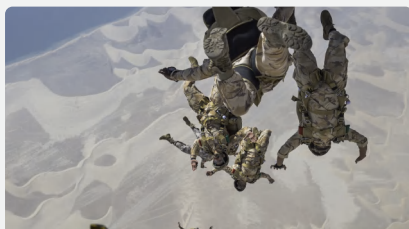


Areas of application

Wide range of citation areas



Security communications



Parachute communications



Inter-cabin communications



Squad Networking Communications



Urban Stability Group communications



High-altitude, high-voltage operational communications



Airport ground handling communications



Yacht crew communications



Tunnel construction communications



Railroad maintenance communications

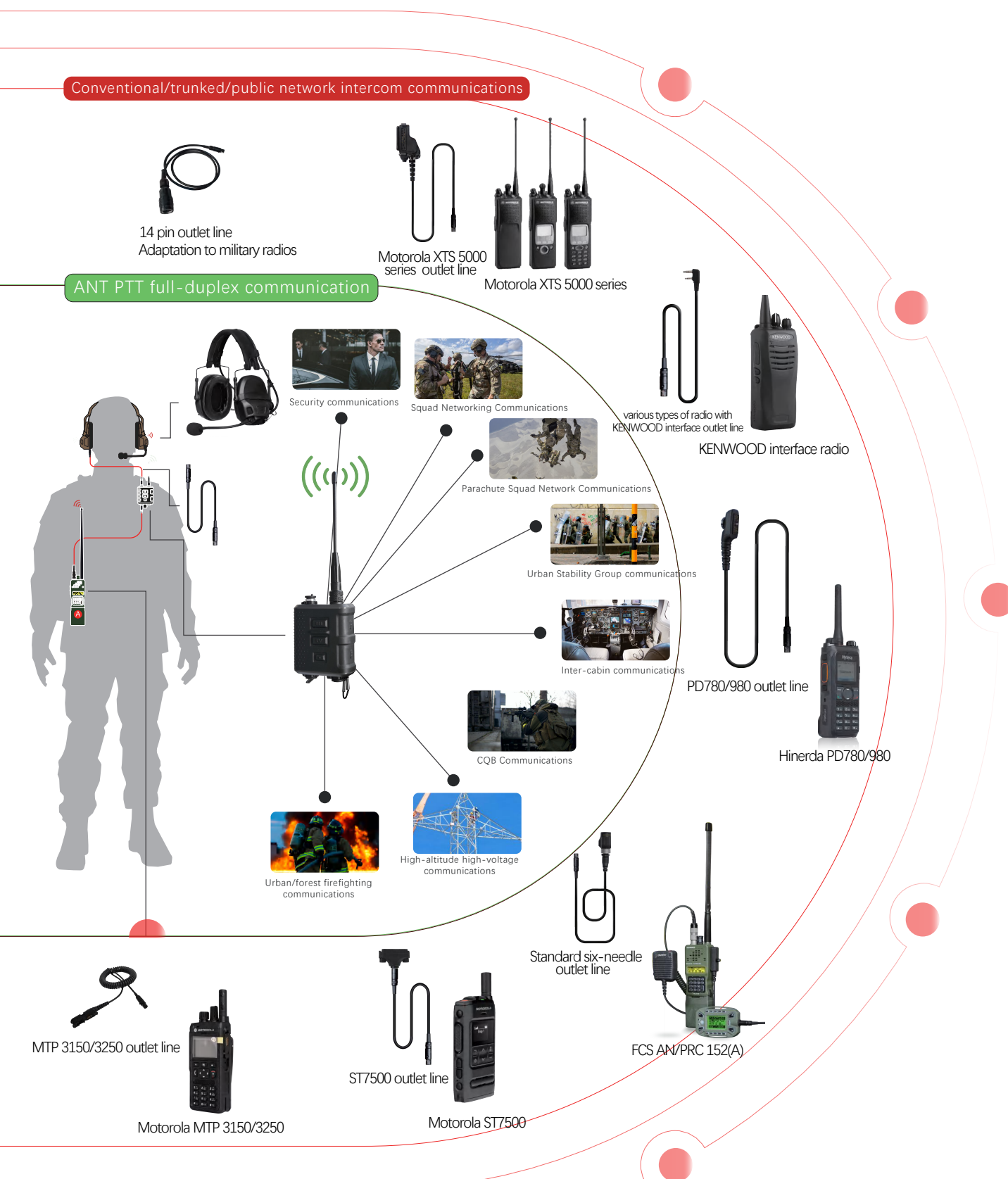


High-risk radiocommunications



CQB Communications

Schematic diagram of man-portable communications fitment





Specification parameters

communication method	Bidirectional full duplex external half duplex
firing power	17dBm
e.g. electrostatic	85mA (maximum transmit power configuration)
Receiving Current	≤6mA (DC-DC mode)
Standby Current	600uA
sensitivity	-129dBm±1dBm
intercom distance	50-500 m (theoretical value 1000 m MAX)
attenuation level	22-26dB (V4S)
endurance	15~25 hours
Battery Type	li-ion battery
battery capacity	1500mAh
Available colors	Black, tan
Connection type	Integrated Communications Wired, Wireless
Antenna connectors	SMA terminal
data interface	KN5 interface
headset interface	KN6 interface
radio interface	KN6 interface
Product Size	90mm*64mm*34mm(stand-alone) 220mm*64mm*44mm (Includes antenna and clip)

