Axiom

AXP480/AXP485

DMR Portable Radio

Increased Call Capacity with DMO 2-slot Operation
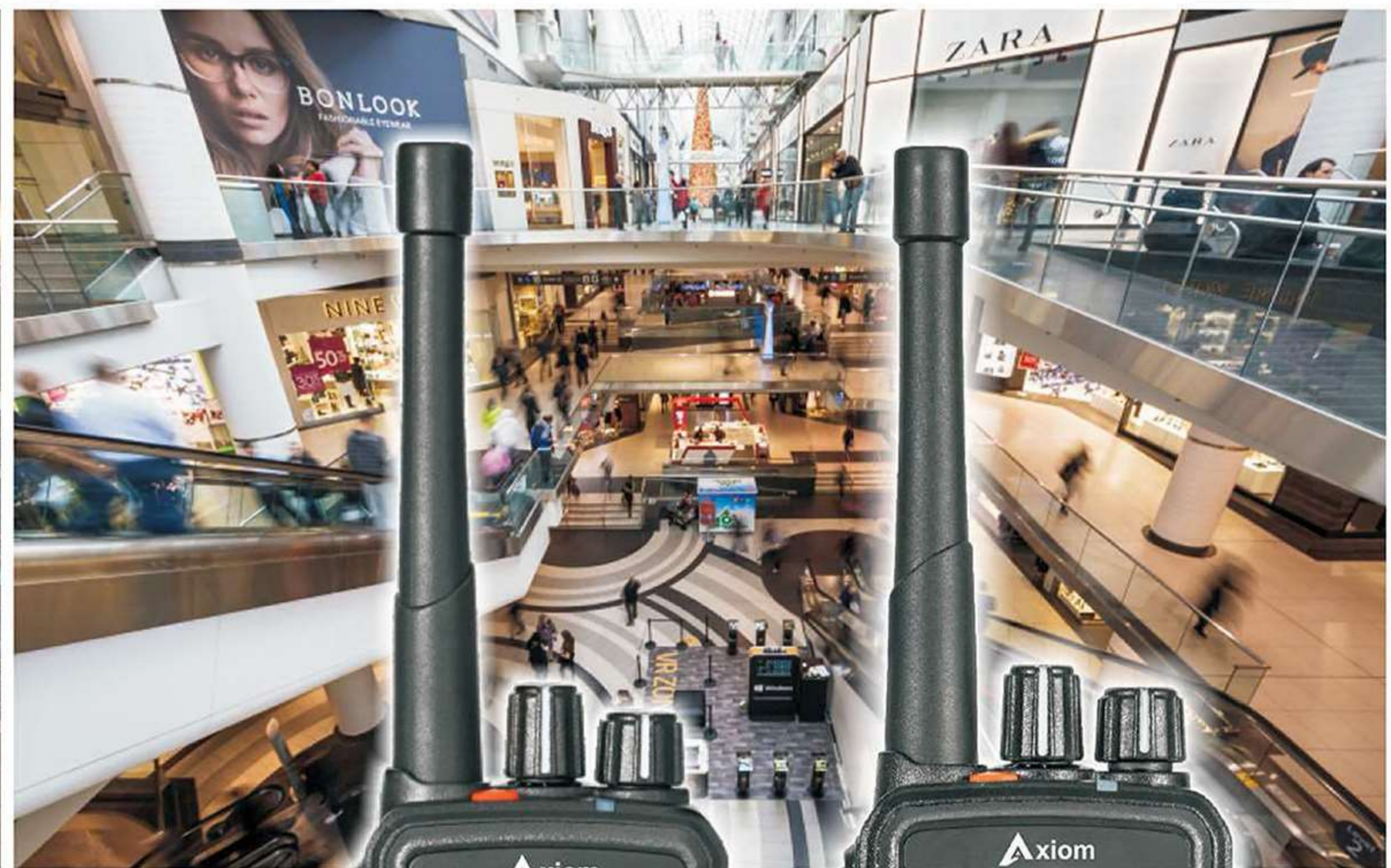GPS Real Time Location
Secure Communications
Pseudo Trunk
Automatic roaming under IP Multi-site Connection System

DMR

**Axiom DMR Solution
Delivers Significant Benefits**

AXP480

AXP485

AXP480/AXP485 DMR Portable Radio

KEY FEATURES AND BENEFITS

·Analog, Digital and Mixed Modes
AXP480/AXP485 is able to detect signal type when receiving a call and automatically switch between analog and digital mode. The user can reply during the call hang time using PTT. This feature improve migration from analog to digital.

·DMO Support
Provide Direct Mode Operation in 2 slots increasing channel capacity without increasing channel frequency spectrum.

·Supplementary Features
AXP480 supports radio enable, radio disable, and remote monitor.

·GPS(Optional)
Integrated GPS enables real-time tracking of radio.

·Digital Encryption
It supports ARC 40-bit encryption, which guarantees communication safety and improve communication privacy. Encryption function provide further protection against over-the-air interception.

·Multiple Emergency Alarm Modes
The emergency feature supports multiple alarm modes such as top priority alarm.

·Roaming
Support roaming while using the radio in an IP site connect system.

·Programmable Keys for Easy Operation
There are three programmable keys to select most-used features.

·Pseudo Trunk
Dynamically allocation of slot while using repeater mode. Improve channel utilization providing simultaneous communication in repeater mode.

STANDARD ACCESSORIES

Adaptor	Single Unit Charger	Battery
Belt Clip	Antenna	Strap

SPECIFICATIONS

General

Frequency Range	136-174MHz, 400-470MHz
Channel Capacity	256
Zone Capacity	16
Channel Spacing	25KHz/12.5KHz(Analog) 12.5KHz(Digital)
Operating Voltage	7.4V DC ±20%
Battery	2000mAH Li-ion(Standard)
Battery Life	Analog:15 hours@2000mAh
(5-5-90 Duty Cycle, High TX Power)	Digital: 18 hours @2000mAh
Frequency Stability	±1.5 ppm
Antenna Impedance	50Ω
Dimensions(H·W·D)(with standard battery, without antenna)	115mm*54mm*30mm
Weight(with standard battery)	275g(2000mAh)

Receiver

Sensitivity Analog	0.22uV@12dB SINAD
Sensitivity Digital	0.22uV@BER5%
Selectivity	60dB@12.5kHz,70dB@25kHZ(TIA-603)
	60dB@12.5kHz,70dB@25kHz(ETSI)
Spurious Response Rejection	70dB@12.5kHz/25kHz(TIA-603)
	70dB@12.5kHz/25kHz(ETSI)
Hum and Noise	40dB@12.5kHz;45dB@25kHz
Rated Audio Power Output	1W
Rated Audio Distortion	3%(typical)
Audio Response	+1~−3dB
Conducted Spurious Emission	−57dBm@<1GHz,-47dBm@>1GHz

Transmitter

RF Power Output	5W/1W(VHF) 4W/1W(UHF)
FM Modulation	11KΦF3E@12.5kHz
	16KΦF3E@25kHz
4FSK Digital Modulation	12.5kHz Data Only:7K6ΦFXD
	12.5kHz Data&Voice:7K6ΦFXW
Modulation Limiting	±2.5kHz@12.5kHz, ±5kHz@25kHz
FM Hum & Noise	40dB@12.5kHz, 45dB@25kHz
Adjacent Channel Power	60dB@12.5kHz, 70dB@25kHz
Audio Response	+1~-3dB
Audio Distortion	≤3%
Digital Vocoder Type	ABME+2™
Digital Protocol	ETSI-TS102 361-1,-2,-3

Environment Specifications

Operating Temperature	−30℃~+60℃
Storage Temperature	−40℃~+85℃
ESD	IEC610000-4-2(Level4)
	±4kV(Contact) ±8kV(air)
Dust & Water Protection	IP54 Standard

GPS

Accuracy specs are for long-term tracking(5 satellites visible at nominal -130dBm)

TTFF(Time To First Fix) Cold Start	<1 minute
Horizontal Accuracy	10m
TTFF(Time To First Fix) Hot Start	10 seconds

All specifications are tested according to applicable standards, and subject to change without notice due to continuous development.

Axiom Authorize Dealer

ISO 9001:14001