

CHP - 880

Mission Critical Interactive Design



Highlights

Efficient Batch Programming and Upgrade

Manage large quantities of radios concurrently to improve programming and upgrade efficiency.

Quick Configuration and OTAP Programming

Utilize the high-speed and reliable message channel between the radio and the console to enable or disable multiple settings such as GPS, BT, WLAN and NFC.

Effective Data Collection and Security Analysis

Collect various radio data including parameters, configuration and diagnosis logs to monitor radio and eliminate security threats.

Multiple Group and Permission Control

Support multiple roles and hierarchical group management to clearly classify the permission and work range for better collaboration.

Rich Third Party APIs

Provide third party APIs for various service extensions such as cloud storage, streaming media, and interfacing with other systems.

Diversified Services

Control application installation and uninstallation, license authorization, remote notification to the radio and file transmission. If the radio is compromised, the system is able to remotely erase sensitive data to avoid information leakage.



User-friendly Keys

Multi-functional control (press and rotate)
 Switch between volume & channels
 (in conventional mode)
 Switch between volume & contacts
 (in trunking mode)

Smart key
 Function varies depending on applications

PTT
 Easy to use
 Large button

Programmable keys

Rugged and Durable Structure

Ip67
 1.2 metres drop test
 MIL-STD-810G

Quick Identification

Interchangeable color ring
 to quickly identify radio

HD Camera

Front & rear 13MP cameras
 Rear camera supports 4K HD video

Reliable Screen

Gorilla Glass^{III}
 Scratch-resistance, anti-impact,
 anti-fingerprint and oil resistance

Industrial LCD

Service life over 30,000h

Diverse Connections

Sensors: 6-axis E-compass, barometer, gyroscope, accelerometer, proximity sensor, Ambient light sensor

Positioning systems: GPS, BDS, GLONASS

Wired connection: accessory pins; Wireless connection: WLAN, NFC and BT

Specifications

Wireless Data Communication

Digital Mobile Radio/Analog	800 MHz: 806-825 MHz, 851-870 MHz UHF : 350 – 527 MHz
LTE	FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B20/B26/B28 TDD-LTE: B38/B39/B40/B41
CDMA	CDMA 1xRTT BC0 CDMA2000 1xEV-DO BC0
WCDMA	B1/B8
TD-SCDMA	B34/B39
GSM	850/900/1800/1900MHz
WLAN	802.11 b/g/n, 2.4GHz
NFC	13.56MHz
BT	V4.2 LE+EDR
Positioning System	GPS, GPS/BDS, GPS/GLONASS

General Specifications

Dimensions (H x W x D)	139.5 x 68 x 25.3mm
Weight (with antenna & battery)	378g
AP Processor	Qualcomm 8-core, 2.0GHz
Ports	20PIN Accessory/Charging Port
Main Display	4.0" Capacitive, Touch screen, Gloves Compatible
Front Camera	13MP Auto Focus
Rear Camera	13MP Auto Focus
Operating Voltage	7.6V(Rated)
Sensors	Proximity Sensor Ambient Light Sensor 6-axis E-Compass Barometer Gyroscope Accelerometer Dual SIM Cards

Battery

Standard	2900 mAh Li-polymer
Optional	4000 mAh
Battery Life	Standard Battery: 14h 12h voice (5:5:90) +2h video Optional Battery: 20h 18h voice (5:5:90) +2h video



Transceiver

Channel Spacing	25/20/12.5kHz
TX Power	800 MHz: 1W/3W UHF : 1W/4W
RX Sensitivity	Analog: 0.3µV(12dB SINAD) 0.22µV(12dB SINAD)(Typical) 0.4µV(20dB SINAD) Digital: 0.3µV/BER5%
Inter-modulation	TIA-603: 70dB@12.5/20/25kHz ETSI: 65dB@12.5/20/25kHz
Blocking	84dB
Suppression of Spurious Response	TIA_603: 70dB@12.5/20/25kHz ETSI: 70dB@12.5/20/25kHz
Frequency Stability	±0.5ppm
Antenna Impedance	50Ω
Audio Output	2W(Rated)
Audio Distortion	≤3%
Microphone	NRR: 30dB(Static), 20dB(Non-static) AEC: > 60dB
Digital Vocoder Type	AMBE++, NVOC

Software

Android Operating System

Video and Imaging

Video File Types	3GPP(.3gp), MPEG-4(.mp4), QuickTime(.mov), WEBM(.webm), Windows Media(.asf, .wmv), RealMedia(.rmvb, .rm), MPEG-PS(.mpg, .mpeg), MPEG-TS(.ts), AVI(.avi), Matroska(.mkv)
Image File Types	JPEG(.jpg), GIF(.gif), PNG(.png), BMP(.bmp)
Video Recording Quality	Front Camera: 1080P HD up to 30 frames per second(fps) Rear Camera: 4K HD
Watermark	Video and imaging

Audio

File Types	MP3(.mp3), WAV(.wav), 3GPP(.3gp), MPEG-4(.mp4, .m4a), ATDS raw AAC(.aac), MPEG-TS(.ts), FLAC(.flac), MIDI(.midi, .xmf, .mxmf), RTTTL/RTX(.rtttl, .rtx), OTA(.ota), iMelody(.imy), Ogg(.ogg), Matroska(.mka), QCELP(.qcp), RealMedia(.ra), Windows Media(.wma), AC3(.ac3)
Input	Dual Mic Noise Suppression Wind Noise Suppression Echo Cancellation

Environment Performance

Dust and Water Proof	IEC 60529-IP67
Shock and Vibration	MIL-STD-810 G
Operating Temperature	-20°C +60°C
Storage Temperature	-30°C +80°C

Rich Features and Applications

Work Mode	Voice Service	Security	Apps
Digital Conventional Analog Conventional DMR Trunking MPT Trunking Public Network	Pgroup Call Private Call All Call Broadcast Call Emergency Call Public Phone Call PSTN/PABX Call Alert Call	Alert Call Remote Monitor Priority Interrupt Override/Interrupt Call Queuing Call Priority	Contacts Messaging Camera Gallery Sound Recorder Files Documents Notes Calendar Clock Calculator Browser Compass
Data Service	Audio	Others	
Text Message Status Message MMS Clarity Transmission Data Query	Microphone Gain Control Audio Feedback Suppression Microphone Path Set Speaker Path Set Three-band Equalizer VOX	Positioning Scan and Roaming Covert Mode	

Optional Accessories



Body Worn Camera



Body Worn Camera
with LCD



Microphone



Covert Camera



4000 mAh Smart
Battery



Carkit



Fast Charger



Multi-unit
Charger



BT Heart Rate
Earpiece



Transparent
Earpiece



Wired Ear set



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