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TECHNICAL Data sheet

IPOC ROIP ED-137

APPLICATION

FOR HYTERA P50 PRO





APPLICATION OVERVIEW

iPoC is a RoIP (Radio over IP) application designed to transform the Hytera P50 Pro into a Smart Radio Endpoint. It enables seamless connectivity with a Radio Server or iGate over IP networks, allowing users to transmit/receive audio and manage PTT (Push-to-Talk) operations directly from the device or via a Web Config interface.

SYSTEM INTEGRATION

- Connects to Radio Server / iGate / RoIP Gateway over IP networks.
- Supports configuration for CH1–CH4, with the ability to independently designate a Main Server and Standby Server for each channel.
- System administrators can configure settings via a Web Browser by logging in with an administrator account.
- Operates via LAN or Wi-Fi, using the IP address assigned within the actual production network

ITEM	DESCRIOTION
Application	iPoC RoIP ED-137 Application
Device Model	Hytera P50 Pro
System Role	RoIP endpoint for controlling Radio channels CH1-CH4
Operation Mode	Muti-channel audio reception, selectable transmit channel and PTT activation via device buttons
Configuration	Via Web Browser at the device's IP address, e.g.,http://<device-ip>:8080

FEATURES

- Supports up to 4 independent channels (Channel 1 to Channel 4).
- Allows users to configure channel names, channel colors, enable/disable status, and toggle channel visibility (show/hide) directly from the Web Config interface.
- Supports independent SIP URI configuration for both Main Server and Standby Server on a per-channel basis.
- Displays real-time operation status on the device screen, including STARTED, LINK, MAIN IN USE, STBY OK/OFF, RX ON/OFF, and TX ON/OFF.
- Allows configuration of Local SIP settings, including Local domain/IP, Local user, and PTT level.
- Saved changes can be applied immediately with the ability to restart the application directly via Web Config.
- Supports exporting and importing configuration data as JSON files for backup purposes or easy duplication to other devices

FOR MORE INFORMATION

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SUPPORTED STANDARDS AND PROTOCOLS

Protocol	System Role
SIP	Used for signaling and session establishment between iPoC and the Radio Server / iGate.
RTP	Use for transmitting media/audio streams between RoIP endpoints.
ED-137/RoIP Profile	Provides guidelines for transmitting PTT, RX/TX states, and R2S/Radio signaling for Radio over IP operations.
G.711 Audio	Used as the standard default audio codec within the RoIP system according to the specified profile.
IPv4/UDP/ TCP	Used for SIP/RTP connectivity and Web Config services.
HTTP+ WebSocket	Used for the Web Config interface, connection status monitoring, and configuration management.

ON-DEVICE CONTROLS

Number keys 1-4	Used to select or control CH1–CH4 to Enable / Disable TX/RX according to the application logic.
Top Rotary Knob	Used to switch the desired channel to become CH_TX Enable.
Side PTT Button	Press and hold to transmit audio to the selected TX channel.
Top Orange Button	Can also be used as a PTT button.
Topmost side button	Toggles screen On/Off.
VOL+ / VOL-	Increases or decreases the volume level.
Bottom USB Type-C	Used for charging the device's battery.

SPECIAL FEATURES

- Can be controlled via both physical buttons on the device and through a Web Browser.
- Supports multi-channel usage with independent RX and TX tracking per channel.
- Provides real-time Main / Standby status indicators, allowing users to clearly see which destination is currently active.
- Ideal for RoIP, Radio Gateway, Dispatch operations, or any communication system requiring portable endpoints.
- Reduces setup time and complexity in the field by utilizing JSON file backup and configuration import.

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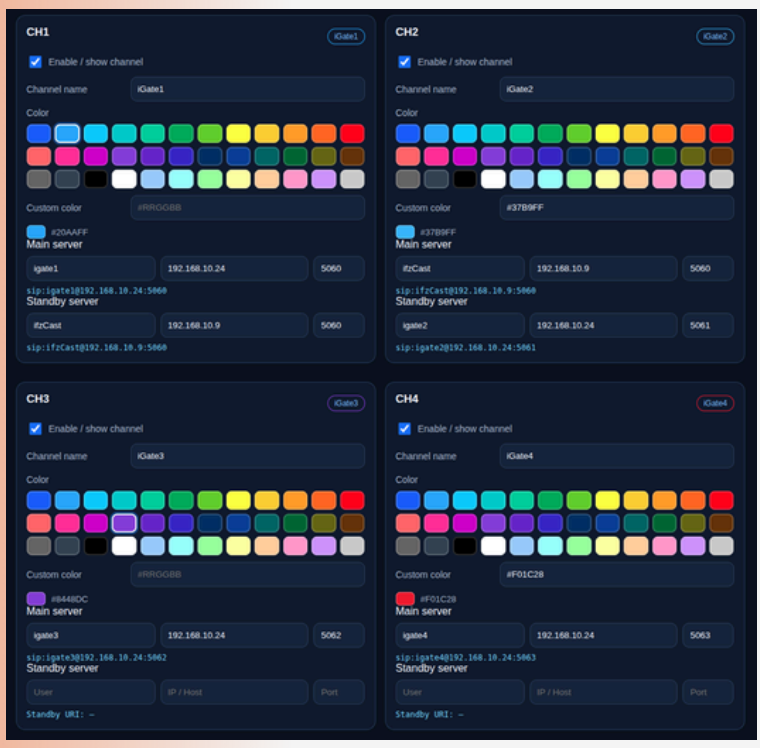

WEB CONFIG

The Web Config interface is used to configure connection settings for each channel and the device's Local SIP parameters. It can be accessed via a Web Browser from a computer or any device connected to the same local network.



MENU/FIELD	DISCRIPTION
Login	Access for administrators (e.g., admin/password) ; it is highly recommended to change the password after installation.
CH1-CH4	Configures channel name, color, enable/show channel status, Main Server, and Standby Server.
Main/Standby Server	Defines the User, IP/Host, and Port for the SIP Server.
Local SIP	Defines the Local domain/IP, Local user, and PTT level.
Save to iPoC+ Restart	Saves settings to the device and restarts the application to apply the new configuration.
Save Config to PC	Downloads and saves the configuration file as a backup.
Import Config JSON	Restores an existing configuration or imports settings to configure another device.

BASIC OPERATING REQUIREMENTS

Network	The iPoC device and the Radio Server must be on a routable network.
IP Address	It is recommended to assign static IP addresses to both the device and the Server.
Firewall	Open SIP/RTP ports according to each channel's configuration, such as ports 5060–5063 and the system-specified RTP ports.
Power	Charge via USB Type-C and verify the battery status prior to field deployment.
Operation	Before pressing PTT, ensure that TX ON is enabled on the intended transmission channel.

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