

# HT841/HT881 Firmware Release Notes

## IMPORTANT UPGRADING NOTE

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## FIRMWARE VERSION 1.0.5.10

### PRODUCT NAME

HT841, HT881

### DATE

04/28/2024

### FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin  
MD5: 6ea8117d84f686c96785d246a5f90e62

### ENHANCEMENT

- Set the “Disable User Level Web Access” (P28158) to “Yes” by default.
- Set the “Disable Viewer Level Web Access” (P28159) to “Yes” by default.
- Force user to change the password upon first login using the default password to the Admin/User/Viewer Account.

## FIRMWARE VERSION 1.0.5.9

### PRODUCT NAME

HT841, HT881

### DATE

04/23/2024

### FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin  
MD5: 099b15ce88c7a34406c08eeaa4a0c72c

### ENHANCEMENT

- Added support for New WebUI.
- Added support for "Enable Early Media for VoIP-to-PSTN Calls".[Enable Early Media for VoIP-to-PSTN Calls]
- Added support tone configuration by port. (Check the changelog for the details)
- Added support for "Request URI Routing ID" on FXO port. [Request URI Routing ID]
- Added support "SIP Destination Port" on the "Port Status" page. (WebUI->Status->Port Status)
- Added the status check whether local sip ports are the same between different profiles.
- Update the FXO's Hook Flash Timing from "300 – 1500" to "100 – 1500".
- Added support for "Auto Send DTMF Upon Call Start".[Auto Send DTMF Upon Call Start]
- Update the "DSP DTMF Detector SNR" value range from "0 – 2" to "0 – 12".
- Added RTP/RTCP Keep Alive on Hold. [RTP/RTCP Keep Alive on Hold]
- Added support for p-value not on WebUI:  
Initial Line Polarity (P28834/28835/28836) (0 - Forward, 1 – Reverse. Default is 1)

### BUG FIX

- Fixed the DDNS does not work issue.
- Fixed unit stops responding after a couple of hours.
- Fixed an issue that causes the caller not to hear the echo when leaving a message on the answering machine.
- Fixed a bug that caused the device to freeze after a few hours.
- Fixed an issue with the registration.
- Fixed a bug that caused the call to fail when the DDI line was connected to the FXS port of the device on the Macau DDI environment.
- Fixed the remote party perceiving echo.
- Fixed the Inaccurate encoding and decoding of DTMF durations with SIP Info.
- Fixed the Peer trunk with the FXO profile fails issue.
- Fixed the SRTP decrypt RTP fail causing one-way audio after a 20+ minute call.

- Fixed no audio on 200ok/ack with UAS on outbound calls.
- Fixed device cannot connect to OpenVPN server issue.

## NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user's point of view.

### Enable Early Media for VoIP-to-PSTN Calls

Users can find the configuration section in Web -> FXO Profile 1 or 2-> FXO Termination.

PIN for PSTN-to-VoIP Calls ?

Enable Early Media for VoIP-to-PSTN Calls ?  No  Yes

- **Functionality**

This feature allows users to set the in-band ringtone option to hear ringtones and other alert tones in reverse polarity signals and supports responding with 183 progress on the FXO port.

Pvalue	Description	Value Range	Default
28830 28831	Enable Early Media for VoIP-to-PSTN Calls	Number: 0 – No 1 – Yes	0 – No

### Request URI Routing ID

Users can find the configuration section in Web -> Port Settings-> FXO PORTS.

Hunting Group	Request URI Routing ID	Enable Port
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes
Disabled <span style="font-size: small;">v</span>	<input style="width: 100px; height: 20px;" type="text"/>	<input type="radio"/> No <input checked="" type="radio"/> Yes

- **Functionality**

This feature allows users to set up a specific FXO port on the outbound call when using FXO Hunting Group.

Pvalue	Description	Value Range	Default
4670 4671 4672 4673 4674 4675 4676 4677	Request URI Routing ID	Number: Max Length 64	(Null)

### Auto Send DTMF Upon Call Start

Users can find the configuration section in Web -> FXO Profile 1 or 2-> Call Settings.

Auto Send DTMF Upon Call Start ?

Early Dial ?
 No
  Yes

- **Functionality**

This feature allows users to set DTMF digits to send to the TDM side after the call from the VoIP side gets started.

Pvalue	Description	Value Range	Default
28845 28846	Auto Send DTMF Upon Call Start	Number: Max Length 16	(Null)

### RTP/RTCP Keep Alive on Hold

Users can find the configuration section in Web -> FXS or FXO Profile-> SIP Settings.

Use Random RTP Port ?
 No
  Yes

RTP/RTCP Keep Alive On Hold ?
 No
  Yes

Hold Target Before Refer ?
 No
  Yes

This feature allows users to set the RTP/RTCP keep Alive on Hold feature. If the RTCP is enabled, the device stops sending RTCP packets once the call is put on hold.

Pvalue	Description	Value Range	Default
28839	RTP/RTCP Keep Alive On Hold	Number:	0
28840		0 – No	
28841		1 – Yes	

## FIRMWARE VERSION 1.0.3.4

### PRODUCT NAME

HT841, HT881

### DATE

10/23/2023

### FIRMWARE FILE INFORMATION

- Firmware file name: ht8x1fw.bin  
MD5: c07b9582ff0e837e3491edab1fe8f62f

### ENHANCEMENT

- Added support “Polarity On Answer Delay”. [Polarity On Answer Delay]
- Updated config file download request starts from cfgMAC.xml.
- Added new value “4 - Auto” in NAT Traversal(P52/730/630).
- Added support “AVS DTMF Detector Parameter” [AVS DTMF Detector Parameters]
- Added support “Radius auth protocol”. [Radius Auth Protocol]
- Removed “Ring Timeout” (P816/516) from FXO page.

### BUG FIX

- Fixed DNS SRV Failover fails when "Check Domain Certificates" is enabled.
- Fixed device config file download request does not start from cfgMAC.xml.
- Fixed NAT Traversal does not have the "Auto" option.
- Fixed Call Waiting CID cannot be displayed.
- Fixed an issue caused device echo during calls.

### NEW FEATURES OVERVIEW

This section lists major new features and describes how to use them from the user’s point of view.

#### Polarity On Answer Delay

Users can find the configuration section in Web -> FXO Profile -> FXO Termination

Enable Polarity Reversal:  No  Yes (Default No. Check with your PSTN carrier before setting to Yes)

Polarity On Answer Delay:  (200-30000 milliseconds. Default 1000 milliseconds)

- **Functionality**

This feature allows users to configure the Polarity On Answer Delay.



Pvalue	Description	Value Range	Default
28825 28826	Polarity On Answer Delay	Number: 200 - 30000	1000

### AVS DTMF Detector Parameters

User can find the configuration section in Web -> FXO Profile/FXO Profile.

*DSP DTMF Detector Min Level:*  (-45-0 dBm, default is -25)  
*DSP DTMF Detector Snr:*  (0-2, default is 1)  
*DSP DTMF Detector Deviation:*  (0-25, default is 25)  
*DSP DTMF Detector Twist:*  (0-12 dB, default is 5)  
*Disable DTMF Negotiation:*  No (negotiate with peer)  Yes (use above)

- **Functionality**

This feature allows users to configure the AVS DTMF detector related parameters. DSP DTMF Detector Min Level sets the minimum level required for DTMF tone to be considered valid, DSP DTMF Detector SNR sets the Maximum signal-to-noise ratio required for DTMF tone to be considered valid, DSP DTMF Detector Deviation sets the deviation, above and below the central frequency, DSP DTMF Detector Twist sets the maximum value by which one frequency energy level can surpass another frequency energy level.

Pvalue	Description	Value Range	Default
28804 28805 28806	DSP DTMF Detector Min Level	Number: -45 – 0	-25
28808 28809 28810	DSP DTMF Detector SNR	Number: 0 – 2	1
28812 28813 28814	DSP DTMF Detector Deviation	Number: 0 – 25	25
28816 28817 28818	DSP DTMF Detector Twist	Number: 0 – 12	5

### Radius Auth Protocol

User can find the configuration section in Web -> Advanced Settings.

Error:  Reject Access  Authenticate Locally  
 RADIUS Auth Protocol:    
 RADIUS Auth Server Address:   
 RADIUS Auth Server Port:   
 RADIUS Shared Secret:

- **Functionality**

This feature allows users to configure RADIUS authentication protocol.

Pvalue	Description	Value Range	Default
28803	RADIUS Auth Protocol	Number: 0 – PAP 1 – CHAP 2 – MsCHAPv1 3 – MsCHAPv2	0 – PAP

## **FIRMWARE VERSION 1.0.1.2**

### **PRODUCT NAME**

HT841, HT881

### **DATE**

09/04/2023

### **FIRMWARE FILE INFORMATION**

- firmware file name: ht8x1fw.bin

MD5: a22de4261464c204dd4b6029c8fbb92d

### **ENHANCEMENT**

- This is the initial release version of HT8X1 firmware.