Auri™
Q-Sys Plugin Guide

AMPETRONIC | **LISTEN** TECHNOLOGIES

Contents

Version History

Auri TX2N 1.0.0.4	August 2025	Initial Release
Auri D4/D16 1.0.0.1	August 2025	Initial Release

Compatibility

The Auri TX2N plugin works with Auri TX2N and Auri TX2N-D Transmitters.

The Auri Docking Station plugin works with Auri D4 and Auri D16 Docking Stations.

Devices must be on firmware version 1.5 or above to support the plugin.

For each device, the API must be enabled before attempting connection with the plugin. The API is disabled by default and must be enabled via the Settings page of each device in Auri Manager. See the system manual for more details on how to configure your device.

Settings
Config

IP Address	Enter the IP address of the device to connect. This can be retrieved by checking the device listing page in Auri Manager.
Status	Reports plugin and driver status.
Device Type*	Reports the device connected, TX2N, TX2N-D, D4 or D16.
Device Name*	Reports the name of the device connected.
Serial Number*	Reports the serial number of the device connected.
MAC Address*	Reports the MAC address of the device connected.
Software Version*	Reports the firmware version of the device connected.
Meter Rate (TX only)	Set how often the signal meters are polled in seconds (0.5 to 120).
Control Rate	Set how often other controls are polled in seconds (5 to 120). Use these options to balance responsiveness of any controls shown on a UI against the level of network traffic needed.
Identify	Sends the identify command to flash the device LED for 30s.
Key Length (TX only)	Defines the length of randomized key to be generated, between 4-16 characters. Shorter keys should only be used when users will need to enter the key manually, for higher security when using RX1 receivers and QR codes the full 16 characters are recommended.
Key Type (TX only)	Defines the character set of randomized key to be generated, numbers, letters, alphanumeric or extended ASCII (adds a range of supported special characters). The larger character set used the higher the security. As with key length this should be balanced with ease of use if manual entry is required.

These fields will be populated for any online Auri device, regardless of whether the API is enabled or not.

Inputs (TX only)

Stream 1 Input 1 Mute	Mutes the local inputs (analogue or Dante) to stream 1.
Stream 1 Input 2 Mute	Mutes the network audio inputs to stream 1.
Stream 1 Signal L/R	Reports back the signal level (post mix) for stream 1, between -96dB and 0dB.
Stream 2 Input 1 Mute	Mutes the local inputs (analogue or Dante) to stream 2.
Stream 2 Input 2 Mute	Mutes the network audio inputs to stream 2.
Stream 2 Signal L/R	Reports back the signal level (post mix) for stream 1, between -96dB and 0dB.

Output 1/2 (TX only)

Radio Output	Toggles the radio output on or off.
Broadcast Name	Sets the name for that broadcast, changing this will restart the radio.
Program Info	Sets the descriptive contextual information about the broadcast.
Encryption	Toggles the encryption on or off for the broadcast.
Privacy Key	Sets the privacy key to be used if encryption is enabled.
Regenerate Key	Generates a new randomized privacy key based on the options set on the Config tab.
QR Code	Shows a QR code to allow Auracast assistants to connect devices to the broadcast. This includes the Broadcast Name, and if Encryption is enabled and a Privacy Key is set, the key will also be included.

Library 1-16 / 17-32 (D only)

Broadcast Name (1-32)	Allows broadcast name to be populated for each of the 32 entries in the docking station library, to be transferred to docked RX1 receivers.
Privacy Key (1-32)	Allows privacy key to be populated for each of the 32 entries in the docking station library, to be transferred to docked RX1 receivers.

Status Outputs

Status	Message	Meaning
MISSING	No IP	IP address field is blank.
INITALIZING	Connecting	Plugin is establishing initial connection to the device.
INITALIZING	Testing API...	Successful initial connection has been made, establishing if API is enabled and responding.
OK	Connected	Device is responding to commands and reporting a valid system status.
FAULT	Invalid IP	IP address is not valid.
FAULT	Unsupported device type:	Device has responded but is not supported by the plugin, ensure you are using the correct plugin for TX2N or D4/D16.
FAULT	Device Error Code: X	Device is in an error state, consult the user manual and Auri Manager to resolve.
FAULT	Device Offline / No Response	No response from the provided IP address. Check IP address and ensure device has power and network connectivity.
FAULT	API Not Enabled	Device initial response received but no response from API. Check firmware version and API setting in Auri Manager.
FAULT	Cannot create JSON UDP socket - try different IP or restart	Plugin is unable to open a UDP socket to the device on port 55666. Check network configuration.
FAULT	JSON service error – change IP to reconnect	Invalid response from the device's info service, check Auri Manager to confirm device is responding as expected.
FAULT	Invalid JSON response	Invalid response from the device's info service, check Auri Manager to confirm device is responding as expected.
FAULT	Cannot create UDP socket – try different IP or restart	Plugin is unable to open a UDP socket to the device for API on port 54666, confirm device firmware is up to date and API enabled, check network configuration.
FAULT	UDP socket lost – change IP to reconnect	Connection has been interrupted, change the IP address or restart the plugin to reinitialize the connection.
FAULT	Network error - change IP to reconnect	Connection has been failed, change the IP address or restart the plugin to reinitialize the connection.

Properties

Show Debug	Enables debug window. Dev only.
Debug Print	Selects which plugin actions should print to debug window. Dev only.

User Interface - TX2N

Config | Inputs | Output 1 | Output 2

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IP Address	10.2.0.151
Status	OK - Connected
Device Type	TX2N
Device Name	Auri-TX2N-E24A0DB0027
Serial Number	E24A0DB0027
MAC Address	44-B7-D0-E2-62-50
Software Version	1.5.0.12.1ea84feac
Meter Rate (0.5–120s)	2
Control Rate (5–120s)	10
	Identify
Key Length (4-16 chars)	16
Key Type	Alphanumeric

Config | Inputs | **Output 1** | Output 2

Stream 1 Input 1 Mute
Stream 1 Input 2 Mute
Stream 1 Signal L   -1.00dB
Stream 1 Signal R   -1.00dB
Stream 2 Input 1 Mute
Stream 2 Input 2 Mute
Stream 2 Signal L   -48.0dB
Stream 2 Signal R   -48.0dB

Config | Inputs | Output 1 | **Output 2**

	Radio Output
Broadcast Name	Meeting Room
Program Info	Assistive Listening
	Encryption
Privacy Key	FWJK9bHAAXgjllKp
	Regenerate Key

User Interface - D4 / D16

Config | Library 1-16 | Library 17-32

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IP Address	10.2.1.36
Status	OK - Connected
Device Type	D16
Device Name	Auri-D16-A25A3DA0066
Serial Number	A25A3DA0066
MAC Address	44-B7-D0-E5-77-D2
Software Version	1.5.0.12.1ea84feac
Poll Rate (5–120s)	10
	Identify

Config | **Library 1-16** | Library 17-32

#	Broadcast Name	Privacy Key
1	Meeting Room	FWJK9bHAAXgjllKp
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

Interconnecting Plugins

The plugins expose all key elements as control pins, allowing you to connect them up to other parts of your Q-Sys design. One key use case is to ensure changes to the TX2N broadcasts are kept in sync with the Docking Stations, so that all docked receivers are able to connect.
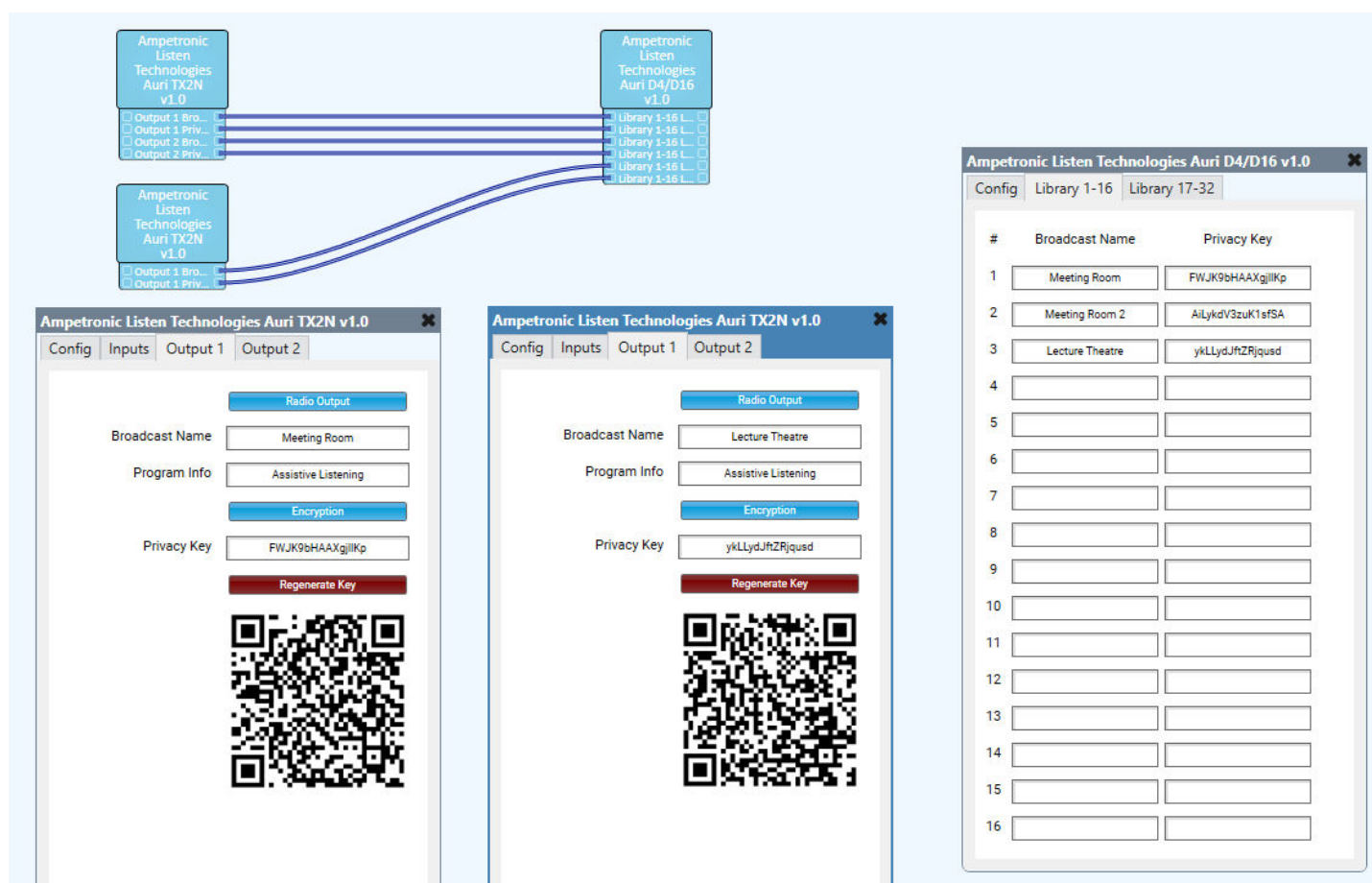
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