Manufacturer: Bose Professional
Model: PSX Amplifier
Device Type: Power Amplifier

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GENERAL INFORMATION	
Q-SYS PLUGIN NAME	Bose Professional PSX Amplifier
VERSION	1.0
SUMMARY	The plugin uses HTTP for control and queries and a WebSocket for status updates. This plugin includes control of source and output channels including backup strategy for sources and extended monitoring for outputs. The plugin also includes generic device status information.
GENERAL NOTES	This plugin is designed to support the following models: • PSX1204D • PSX2404D
DEVICE USED FOR TESTING	PSX4804D (v1.11.0.162) • Q-SYS Core 110f (v9.10.0)

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INITIAL SETUP	
PROPERTIES	**Debug Level**: Indicates the specificity level of messages that appear in the debug window. The options include: 1- *Off*: No messages will be printed. [Default] 2- *Device Communication*: Only messages related to commands going to/coming from physical devices will be printed. 3- *Troubleshooting*: All internal messages will be printed. **Log Debug Messages**: Indicates whether to also save any messages that are printed to the debug window to the internal Q-SYS processor's logs. [Default: False]
ESTABLISHING CONNECTION	The "IP Address" property (or the corresponding "IP Address" input pin) must be set. The plugin will automatically attempt to connect and communicate with the device at the specified IP Address when the program starts. Once the plugin has received responses from the device for all the initial queries, the "Is Initialized" pin will go high. At this point, the plugin is considered fully ready for operation.

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PLUGIN CONTROLS (General)	
Power	Indicate and set the amplifier standby state as on or off. *[Both	Boolean]*
Wink	Indicate and set the amplifier wink state as on or off. When active, this will do the identifying flashes on the device. *[Both	Boolean]*
Mains (V)	Indicate the reported Mains of the device. *[Output	String]*
Communicating	Indicates if the plugin is communicating with the device. *[Output	Boolean]*
Initialized	Indicates if the plugin has synced all relevant data with the device. *[Output	Boolean]*
Fault	Indicates any amplifier fault (located on a later pages) is true. This includes thermal fault, PSU Critical fault, and output channel specific faults. *[Output	Boolean]*
Standby	Indicates the amplifier is in standby mode. *[Output	Boolean]*

PLUGIN CONTROLS (Settings)	
IP Address	Set to override the IP Address in properties. *[Input	String]*
Name	Indicate and set the friendly device name of the amplifier. *[Both	String]*
Serial Number	Indicates the serial number of the connected amplifier. *[Both	String]*
Firmware	Indicates the firmware version of the connected amplifier. *[Output	String]*
Status	Indicates the plugin status in Q-SYS Designer. *[Output	String]*

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PLUGIN CONTROLS (Sources & Matrix)	
Source # Label	Set a friendly source # label. This is in Q-SYS only. *[Input | Boolean]*
Source # Backup Strategy	Indicate and set this source's backup strategy. *[Both | String]*
Source # Priority #	Indicate and set the source selected for each priority. *[Both | String]*
Source # Priority # Signal	Indicates the signal of the source assigned to this source priority is detected. *[Output | Boolean]*
Source # Priority # Clip	Indicates the signal of the source assigned to this source priority is clipping. *[Output | Boolean]*
Source # Priority # Active	Indicates this priority is active on this source channel. *[Output | Boolean]*
Source # Mute	Indicate and set this source channel's mute. *[Both | Boolean]*
Source # Matrix Crosspoint Output # Gain	Indicate and set this source's matrix output # gain. *[Both | Number]*
Source # Matrix Crosspoint Output # Mute	Indicate and set this source's matrix output # mute. *[Both | Boolean]*
Dante Subscription ID	Indicates the Dante subscription ID for each Dante input. *[Output | String]*

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PLUGIN CONTROLS (Outputs)	
Out # Channel Label	Indicate and set a friendly output # channel label. This is in Q-SYS only. *[Both | String]*
Out # Bridge Label	Indicate and set a friendly output # bridge label. This is in Q-SYS only. *[Both | String]*
Out # Delay	Indicate and set the delay of the output. Range: 0-2000 milliseconds. *[Both | Number]*
Out # Phase	Indicate and set this output's phase. *[Both | Boolean]*
Out # Mute	Indicate and set this output's mute. *[Both | Boolean]*
Out # Gain	Indicate and set this output's gain. Range -60 to 0 dB. *[Both | Number]*
Out # Peak	Indicate this output's RMS voltage as a peak meter. *[Output | Number]*
Out # Fault	Indicate this output has an alarm active on the output monitoring page. *[Output | Boolean]*
Out # Clip	Indicate this output's signal clipping status. *[Output | Boolean]*
Out # User Limit	Indicate this output's user limit hit status. *[Output | Boolean]*
Out # Bridged	Indicate this output's bridged status. *[Output | Boolean]*

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PLUGIN CONTROLS (Output Monitoring)

Out # Short Circuit	Indicates if this output has a short circuit fault. *[Output	Boolean]*
Out # Pilot Tone Generator Enable	Indicate and set this output's pilot tone generator enable. *[Both	Boolean]*
Out # Pilot Tone Generator Level	Indicate this output's pilot tone generator level. *[Output	Number]*
Out # Pilot Tone Generator Frequency	Indicate this output's pilot tone generator frequency. *[Output	Number]*
Out # Pilot Tone Voltage Monitor Enable	Indicate and set this output's pilot tone load voltage monitor enable. *[Both	Boolean]*
Out # Pilot Tone Voltage Monitor Frequency	Indicate this output's pilot tone voltage alarm monitor frequency. *[Output	Number]*
Out # Pilot Tone Voltage Monitor Threshold Low	Indicate this output's pilot tone voltage monitor low threshold limit. *[Output	Number]*
Out # Pilot Tone Voltage Monitor Threshold High	Indicate this output's pilot tone voltage monitor alarm high threshold limit. *[Output	Number]*
Out # Pilot Tone Voltage Monitor Detected Amplitude	Report the output's pilot tone voltage monitor detected amplitude value. Feedback only. *[Output	String]*
Out # Pilot Tone Voltage Monitor Detected Amplitude Status	Report the status of the output's pilot tone voltage monitor detected amplitude by comparing it to the relevant thresholds. This is a status control that will report 'OK' or 'Fault' along with descriptions as applicable. *[Output	String]*
Out # Pilot Tone Load Monitor Enable	Indicate and set this output's pilot tone load monitor enable. *[Both	Boolean]*
Out # Pilot Tone Load Monitor Frequency	Indicate this output's pilot tone load monitor frequency. *[Output	Number]*
Out # Pilot Tone Load Monitor Threshold Low	Indicate this output's pilot tone load monitor low threshold limit. *[Output	Number]*
Out # Pilot Tone Load Monitor Threshold High	Indicate this output's pilot tone load monitor high threshold limit. *[Output	Number]*

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Out # Pilot Tone Load Monitor Detected Z	Report the pilot tone load monitor detected impedance value. Feedback only. *[Output	String]*
Out # Pilot Tone Load Monitor Detected Z Status	Report the status of the pilot tone load monitor detected z by comparing it to the relevant thresholds. This is a status control that will report 'OK' or 'Fault' along with descriptions as applicable. *[Output	String]*
Out # Nominal Impedance Alarm Enable	Indicate and set this output's nominal impedance alarm enable. *[Both	Boolean]*
Out # Nominal Impedance Alarm Threshold Low	Indicate this output's nominal impedance alarm low threshold limit. *[Output	Number]*
Out # Nominal Impedance Alarm Threshold High	Indicate this output's nominal impedance alarm high threshold limit. *[Output	Number]*
Out # Nominal Impedance Alarm Detected Z	Report the nominal impedance alarm detected impedance value. Feedback only. *[Output	String]*
Out # Nominal Impedance Alarm Detected Z Status	Report the status of the nominal impedance alarm detected z by comparing it to the relevant thresholds. This is a status control that will report 'OK' or 'Fault' along with descriptions as applicable. *[Output	String]*

PLUGIN CONTROLS (Amplifier Faults)	
PSU or Critical Fault	Indicates if the PSU or Critical Fault is true. Feedback Only *[Output	Boolean]*
Thermal Fault	Indicates if the Thermal Fault is true. Feedback Only *[Output	Boolean]*

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KNOWN ISSUES
• N/A

ADDITIONAL INFORMATION	
Change Log	v1.0 – Initial Release
Support Contact	Company: Bose Professional Website: https://www.boseprofessional.com/support