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# Introduction

These plugins are based on the APIs of the Pro Convert decoder, providing a rich set of SIMPL+ modules to assist you in creating and developing Crestron projects. You can import the provided modules into the Crestron development environment and compile them. Upon successful compilation, they will be added to the Symbol Library window under the User folder, from where you can utilize them in your SIMPL Windows development environment or the Crestron Studio system. Simply drag them into the Logic directory of the Program window to see the added SIMPL+ modules. You may use all of their input and output signals, and customize the SIMPL+ Module codes to meet your needs, such as adding or altering certain input or output signals to meet your specific requirements.

SIMPL+ modules in this document apply to these products:

- Pro Convert for NDI<sup>®</sup> to AIO
- Pro Convert for NDI<sup>®</sup> to HDMI
- Pro Convert for NDI<sup>®</sup> to HDMI 4K
- Pro Convert for NDI<sup>®</sup> to SDI
- Pro Convert for NDI<sup>®</sup> to HDMI Module
- Pro Convert for NDI<sup>®</sup> to AIO Module

# ProConvert\_Edid Module

Obtain or export the EDID of the connected display.

## SIMPL+ File

ProConvert\_Edid.usp

## Feature

EDID

## Related API

[get-output-edid](#)

[export-edid](#)

## Notice

1. Export EDID from the custom file path of your server.
2. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_General Module

General settings include reboot, system time, etc.,

## SIMPL+ File

ProConvert\_General.usp

## Feature

General

## Related API

[ping](#)

[sync-time](#)

[reboot](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetAudioConfig Module

Obtain the audio settings.

## SIMPL+ File

ProConvert\_GetAudioConfig.usp

## Feature

Audio

## Related API

[get-audio-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetAutoReboot Module

Obtain the configuration of auto-reboot.

## SIMPL+ File

ProConvert\_GetAutoReboot.usp

## Feature

General

## Related API

[get-auto-reboot](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`



# ProConvert\_GetBufferLimit Module

Obtain information about the respective buffer time according to the protocol type of the data source, including the default value and the value range in ms.

## SIMPL+ File

ProConvert\_GetBufferLimit.usp

## Feature

Source

## Related API

[get-buffer-limit](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetCaps Module

Call this interface to get the specification of your device.

## SIMPL+ File

ProConvert\_GetCaps.usp

## Feature

General

## Related API

[get-caps](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetDefVideoConfig Module

Obtain the default profile of video settings.

## SIMPL+ File

ProConvert\_GetDefVideoConfig.usp

## Feature

Video

## Related API

[get-def-video-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetEthStatus Module

Obtain Ethernet configuraion with admistrator rights.

## SIMPL+ File

ProConvert\_GetEthStatus.usp

## Feature

Network

## Related API

[get-eth-status](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetHdmiOutput Module

Obtain the output status after decoding.

## SIMPL+ File

ProConvert\_GetHdmiOutput.usp

## Feature

Video

## Related API

[get-hdmi-output](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetNDIConfig Module

Obtain NDI configuration.

## SIMPL+ File

ProConvert\_GetNDIConfig.usp

## Feature

Source

## Related API

[get-ndi-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetNetAccess Module

Obtain network service configuration with administrator rights.

## SIMPL+ File

ProConvert\_GetNetAccess.usp

## Feature

Network

## Related API

[get-net-access](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetPlaybackConfig Module

Obtain NDI buffer time configuration.

## SIMPL+ File

ProConvert\_GetPlaybackConfig.usp

## Feature

Source

## Related API

[get-playback-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`



# ProConvert\_GetRndisStatus Module

Obtain USB RNDIS configuration with administrator rights.

## SIMPL+ File

ProConvert\_GetRndisStatus.usp

## Feature

Network

## Related API

[get-rndis-status](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetVideoConfig Module

Obtain video settings.

## SIMPL+ File

ProConvert\_GetVideoConfig.usp

## Feature

Video

## Related API

[get-video-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_GetVideoFormat Module

Obtain video format.

## SIMPL+ File

ProConvert\_GetVideoFormat.usp

## Feature

Video

## Related API

[get-video-format](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_Login Module

Log in and log out.

## SIMPL+ File

ProConvert\_Login.usp

## Feature

User account

## Related API

[login](#)

[logout](#)

## Notice

1. This module outputs a cookie pin, and all other modules need to wire this cookie pin to indicate that they have logged into the device;
2. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_NDISource Module

Obtain NDI sources automatically and set up for decoding.

## SIMPL+ File

ProConvert\_NDISource.usp

## Feature

Source

## Related API

[get-ndi-sources](#)

[set-channel](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_NetAccess Module

Obtain and set network access with administrator rights.

## SIMPL+ File

ProConvert\_NetAccess.usp

## Feature

Network

## Related API

[get-net-access](#)

[set-net-access](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`
2. Device SSDP and HTTPS service settings need a device reboot to take effect.

# ProConvert\_Reset Module

Obtain whether a user has rights to reset or reboot the device and set the reset parameters.

## SIMPL+ File

ProConvert\_Reset.usp

## Feature

General

## Related API

[get-reset-all-permission](#)

[reset-all-settings](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_ResetVideoConfig Module

Reset all video settings to factory default settings.

## SIMPL+ File

ProConvert\_ResetVideoConfig.usp

## Feature

Video

## Related API

[reset-video-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`



# ProConvert\_SetAudioConfig Module

Modify audio settings.

## SIMPL+ File

ProConvert\_SetAudioConfig.usp

## Feature

Audio

## Related API

[set-audio-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetEthConfig Module

Set Ethernet configuration.

## SIMPL+ File

ProConvert\_SetEthConfig.usp

## Feature

Network

## Related API

[set-eth-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetHdmiOutput Module

Set whether to output after decoding.

## SIMPL+ File

ProConvert\_SetHdmiOutput.usp

## Feature

Video

## Related API

[set-hdmi-output](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetNdiConfig Module

Set NDI configuration.

## SIMPL+ File

ProConvert\_SetNdiConfig.usp

## Feature

Source

## Related API

[set-ndi-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetNetAccess Module

Set network access with administrator rights.

## SIMPL+ File

ProConvert\_SetNetAccess.usp

## Feature

Network

## Related API

[set-net-access](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetPlaybackConfig Module

Set NDI buffer time.

## SIMPL+ File

ProConvert\_SetPlaybackConfig.usp

## Feature

Source

## Related API

[set-playback-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetRndisConfig Module

Set USB RNDIS.

## SIMPL+ File

ProConvert\_SetRndisConfig.usp

## Feature

Network

## Related API

[set-rndis-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SetVideoConfig Module

Modify video configuration.

## SIMPL+ File

ProConvert\_SetVideoConfig.usp

## Feature

Video

## Related API

[set-video-config](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`



# ProConvert\_SetVideoFormat Module

Set video format.

## SIMPL+ File

ProConvert\_SetVideoFormat.usp

## Feature

Video

## Related API

[set-video-format](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SignallInfo Module

Obtain input signal information.

## SIMPL+ File

ProConvert\_SignallInfo.usp

## Feature

Video

## Related API

[get-signal-info](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SourcePreset Module

Obtain, modify, add, delete, and set source channels.

## SIMPL+ File

ProConvert\_SourcePreset.usp

## Feature

Source

## Related API

[list-channels](#)

[modify-channel](#)

[del-channel](#)

[add-channel](#)

[clear-channels](#)

[set-channel](#)

[get-channel](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_SummaryInfo Module

Obtain device status including basic information of device, status of Ethernet, USB RNDIS, and NDI.

## SIMPL+ File

ProConvert\_SummaryInfo.usp

## Feature

General

## Related API

[get-summary-info](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_Users Module

Manage user accounts with administrator rights.

## SIMPL+ File

ProConvert\_Users.usp

## Feature

User management

## Related API

[get-users](#)

[add-user](#)

[del-user](#)

[ch-password](#)

[set-password](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProConvert\_VideoMode Module

Obtain resolutions supported by the connected display, and set the output format.

## SIMPL+ File

ProConvert\_VideoMode.usp

## Feature

Video

## Related API

[get-supported-video-modes](#)

[set-video-mode](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# ProCovnert\_SetAutoReboot

Set auto-reboot for your device.

## SIMPL+ File

ProCovnert\_SetAutoReboot.usp

## Feature

General

## Related API

[set-auto-reboot](#)

## Notice

1. Add the following codes at the beginning of the main function when using HTTPS: `magewell.pSecurity = 1;`

# Introduction

Pro Convert encoder, providing a rich set of SIMPL+ modules to assist you in creating and developing Crestron projects. You can import the provided modules into the Crestron development environment and compile them. Upon successful compilation, they will be added to the Symbol Library window under the User folder, from where you can utilize them in your SIMPL Windows development environment or the Crestron Studio system. Simply drag them into the Logic directory of the Program window to see the added SIMPL+ modules. You may use all of their input and output signals, and customize the SIMPL+ Module codes to meet your needs, such as adding or altering certain input or output signals to meet your specific requirements.

Modules in this document apply to:

- Pro Convert HDMI 4K Plus
- Pro Convert HDMI Plus
- Pro Convert HDMI TX
- Pro Convert 12G SDI 4K Plus
- Pro Convert SDI 4K Plus
- Pro Convert SDI Plus
- Pro Convert SDI TX
- Pro Convert HDMI 4K Plus Module
- Pro Convert HDMI Plus Module



# ProConvertEnc\_ArrangePtzCameras Module

Set PTZ camera.

## SIMPL+ File

ProConvertEnc\_ArrangePtzCameras.usp

## Feature

PTZ

## Related API

[arrange-ptz-cameras](#)

# ProConvertEnc\_General Module

General interfaces include reboot, and system time synchronization. etc.

## SIMPL+ File

ProConvertEnc\_General.usp

## Feature

General

## Related API

[ping](#)

[sync-time](#)

[reboot](#)

# ProConvertEnc\_GetAutoReboot Module

Obtain auto-reboot settings.

## SIMPL+ File

ProConvertEnc\_GetAutoReboot.usp

## Feature

General

## Related API

[get-auto-reboot](#)

# ProConvertEnc\_GetCaps Module

Call this interface to obtain the specification of the currently connected device since specifications vary based on models.

## SIMPL+ File

ProConvertEnc\_GetCaps.usp

## Feature

General

## Related API

[get-caps](#)

# ProConvertEnc\_GetDefVideoConfig Module

Obtain the default video configuration.

## SIMPL+ File

ProConvertEnc\_GetDefVideoConfig.usp

## Feature

Video

## Related API

[get-def-video-config](#)

## ProConvertEnc\_GetEdidConfig Module

Obtain the input EDID.

### SIMPL+ File

ProConvertEnc\_GetEdidConfig.usp

### Feature

EDID

### Related API

[get-edid-config](#)

# ProConvertEnc\_GetEthStatus Module

Obtain the Ethernet configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_GetEthStatus.usp

## Feature

Network

## Related API

[get-eth-status](#)

# ProConvertEnc\_GetNDIConfig Module

Obtain NDI configuration.

## SIMPL+ File

ProConvertEnc\_GetNDIConfig.usp

## Feature

NDI

## Related API

[get-ndi-config](#)



# ProConvertEnc\_GetNDISource Module

Obtain available backup channels.

## SIMPL+ File

ProConvertEnc\_GetNDISource.usp

## Feature

NDI

## Related API

[get-ndi-sources](#)

# ProConvertEnc\_GetNetAccess Module

Obtain network configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_GetNetAccess.usp

## Feature

Network

## Related API

[get-net-access](#)

# ProConvertEnc\_GetNtpServer Module

Obtain NTP configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_GetNtpServer.usp

## Feature

Network

## Related API

[get-ntp-server](#)

# ProConvertEnc\_GetOutputEdid Module

Obtain output EDID.

## SIMPL+ File

ProConvertEnc\_GetOutputEdid.usp

## Feature

EDID

## Related API

[get-output-edid](#)

## ProConvertEnc\_GetPtzConfig Module

Obtain PTZ configuration.

### SIMPL+ File

ProConvertEnc\_GetPtzConfig.usp

### Feature

PTZ

### Related API

[get-ptz-config](#)

# ProConvertEnc\_GetRndisStatus Module

Obtain USB RNDIS configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_GetRndisStatus.usp

## Feature

Network

## Related API

[get-rndis-status](#)

# ProConvertEnc\_GetTally Module

Obtain Tally information with administrator rights.

## SIMPL+ File

ProConvertEnc\_GetTally.usp

## Feature

NDI

## Related API

[get-tally](#)

# ProConvertEnc\_GetVideoConfig

Obtain the video settings.

## SIMPL+ File

ProConvertEnc\_GetVideoConfig.usp

## Feature

Video

## Related API

[get-video-config](#)



# ProConvertEnc\_Login Module

Log in and log out.

## SIMPL+ File

ProConvertEnc\_Login.usp

## Feature

User account

## Related API

[login](#)

[logout](#)

## Notice

1. This module outputs a cookie pin, and all other modules need to wire this cookie pin to indicate that they have logged into the device;

# ProConvertEnc\_Reset Module

Obtain whether a user has rights to reset or reboot the device and set the reset parameters.

## SIMPL+ File

ProConvertEnc\_Reset.usp

## Feature

General

## Related API

[get-reset-all-permission](#)

[reset-all-settings](#)

# ProConvertEnc\_ResetVideoConfig Module

Reset all video settings to factory default settings.

## SIMPL+ File

ProConvertEnc\_ResetVideoConfig.usp

## Feature

Video

## Related API

[reset-video-config](#)

# ProConvertEnc\_SetDefaultEdid Module

Reset input EDID to default.

## SIMPL+ File

PProConvertEnc\_SetDefaultEdid.usp

## Feature

EDID

## Related API

[set-default-edid](#)

# ProConvertEnc\_SetEdidConfig Module

Modify input EDID configuration.

## SIMPL+ File

ProConvertEnc\_SetEdidConfig.usp

## Feature

EDID

## Related API

[set-edid-config](#)

# ProConvertEnc\_SetEthConfig Module

Set Ethernet configuration.

## SIMPL+ File

ProConvertEnc\_SetEthConfig.usp

## Feature

Network

## Related API

[set-eth-config](#)

# ProConvertEnc\_SetNdiConfig Module

Set NDI configuration.

## SIMPL+ File

ProConvertEnc\_SetNdiConfig.usp

## Feature

NDI

## Related API

[set-ndi-config](#)

# ProConvertEnc\_SetNetAccess Module

Set network configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_SetNetAccess.usp

## Feature

Network

## Related API

[set-net-access](#)



# ProConvertEnc\_SetNtpServer Module

Set NTP configuration with administrator rights.

## SIMPL+ File

ProConvertEnc\_SetNtpServer.usp

## Feature

Network

## Related API

[set-ntp-server](#)

# ProConvertEnc\_SetPtzConfig Module

Set PTZ configuration.

## SIMPL+ File

ProConvertEnc\_SetPtzConfig.usp

## Feature

PTZ

## Related API

[set-ptz-config](#)

# ProConvertEnc\_SetRndisConfig Module

Set USB RNDIS configuration.

## SIMPL+ File

ProConvertEnc\_SetRndisConfig.usp

## Feature

Network

## Related API

[set-rndis-config](#)

# ProConvertEnc\_SetTally Module

Enable custom Tally with administrator rights.

## SIMPL+ File

ProConvertEnc\_SetTally.usp

## Feature

NDI

## Related API

[set-tally](#)

# ProConvertEnc\_SetVideoConfig Module

Modify video configuration.

## SIMPL+ File

ProConvertEnc\_SetVideoConfig.usp

## Feature

Video

## Related API

[set-video-config](#)

# ProConvertEnc\_SignalInfo Module

Obtain input signal information.

## SIMPL+ File

ProConvertEnc\_SignalInfo.usp

## Feature

Video

## Related API

[get-signal-info](#)

# ProConvertEnc\_SummaryInfo Module

Obtain device status including basic information of device, status of Ethernet, USB RNDIS, and NDI.

## SIMPL+ File

ProConvertEnc\_SummaryInfo.usp

## Feature

General

## Related API

[get-summary-info](#)

# ProConvertEnc\_Users Module

Manage user accounts with administrator rights.

## SIMPL+ File

ProConvertEnc\_Users.usp

## Feature

User management

## Related API

[get-users](#)

[add-user](#)

[del-user](#)

[ch-password](#)

[set-password](#)



# ProCovnertEnc\_SetAutoReboot Module

Set auto-reboot for your device.

## SIMPL+ File

ProCovnertEnc\_SetAutoReboot.usp

## Feature

General

## Related API

[set-auto-reboot](#)