

**SIMPLWINDOWS
NAME:**

xiva Global Processor Version 4

CATEGORY:

TRANSPORT DECKS

VERSION:

1.0

SUMMARY:

Processes all global information received from/sent to the xiva system

GENERAL NOTES:

xiva is a communications protocol which is utilized by multiple manufacturers. Since these different manufacturers use the same communications protocol, this single set of Crestron control modules can be used to control multiple devices made by multiple manufacturers. If the device indicates it is "powered by xiva", then you can probably use this set of modules to control it.

This module performs two functions:

1. It will send all non-zone-specific commands to the xiva system (such as opening/closing databases)
2. It will process all information received from the xiva system, and will map the information to the appropriate zone outputs. These outputs can then be connected to the corresponding inputs on the xiva Single/Multi Zone Control module, as well as the xiva Setup and Record modules.

Depending on the model of the xiva system, it may support anywhere from 1 - 16 separate audio outputs (zones). This module provides zone specific information for all sixteen zones. These are the ZONE-*-STATUS and ZONE-*-INFORMATION\$ outputs. Regardless of how many zones you want to control from the Crestron system, you should only need one copy of this module in your program. You will need a separate xiva Zone Control module for each zone that you are controlling. Or you can use a xiva Selectable Zone Control module to control all zones.

This module also provides SETUP-INFORMATION\$ and RECORD-INFORMATION\$ outputs. These outputs should be routed to the corresponding xiva Setup and Record modules if they are being used in the system.

This module also allows you to automatically generate a hidden playlist for each genre. These hidden playlists can be accessed by the individual zone control modules, and will allow all of the selections for a single genre to be played. These playlists will not appear when you are browsing through the available plylists. Typically, you would pulse this input once a day (maybe at 2:00AM) to re-generate the genre playlists in case any new media was added during the day. Creating these playlists may take some time, however the status of the creation process will be reflected at the GENERATE-PLAYLIST-STATUS\$ output, and the GENERATE-GENRE-PLAYLIST-BUSY output will be high while the generation is in progress.

Many xiva systems can be controlled either using RS232 control, or using TCP/IP control. All sixteen zones can be controlled through a single RS232 port, or a single TCP/IP Client. Due to the large amount of data being transferred, you must enable RTS/CTS handshaking when using RS232 control. If using TCP/IP control, use port number 6789d. You will need to establish the TCP/IP connection before any control will be possible. See the demo program for an example of the TCP/IP

application.

Before any searching or browsing functions will work, you must pulse the OPEN-DATABASES input. This will request the database information which is needed when performing a search. Typically, you could pulse this input on start-up of the Crestron system. If the database information ever changes in the xiva system (such as when a new disc is added) this module should automatically re-open the necessary databases.

This module has a parameter field which allows you to limit the length of the text fields which will be displayed on the touch panel. This can prevent having text which is too long for display in an indirect text field. You should enter this as a decimal number with a d suffix. So for a maximum length of 36 characters, enter 36d

CRESTRON CNXCOM
HARDWARE ST-COM
REQUIRED: CNXENET+

SETUP OF CRESTRON **For RS232:**
HARDWARE: Baud Rate - 38400
Parity - Even
Data Bits - 7
Stop Bits - 1
RTS/CTS handshaking must be enabled

For ethernet communications:
Must have a CNXENET+ card
Use the TCP/IP Client
Use port # 6789d

VENDOR FIRMWARE: xiva-Link Version 1.03

VENDOR SETUP: None

CABLE NUMBER: CNSP-532

CONTROL:

OPEN-DATABASES	D	Pulse to open the databases. This must be done before any searching functions are performed
CLOSE-DATABASES	D	Pulse to close the databases
xiva-RX\$	S	Serial data signal to be routed from a 2-way RS232 port

FEEDBACK:

ZONE-*-STATUS	A	Contains transport status information for each zone. Should be routed to the corresponding input of the xiva Zone Control module
ZONE-*-INFORMATION\$	S	Contains serial information for each zone. Should be routed to the corresponding input of the xiva Zone Control module
SETUP-INFORMATION\$	S	Contains serial information to be used by the xiva Setup module.
RECORD-INFORMATION\$	S	Contains serial information to be used by the xiva Record module.
GENRE-MARKER/COUNT\$	S	Contains genre database information. Should be routed to the corresponding input on all xiva Zone Control modules

ARTIST-MARKER/COUNT\$	S	Contains artist database information. Should be routed to the corresponding input on all xiva Zone Control modules
MEDIA-MARKER/COUNT\$	S	Contains media database information. Should be routed to the corresponding input on all xiva Zone Control modules
PLAYLIST-MARKER/COUNT\$	S	Contains playlist database information. Should be routed to the corresponding input on all xiva Zone Control modules
xiva-TX\$	S	Serial data signal to be routed to a 2-way RS232 port

OPS USED FOR TESTING: v3.029.cuz

COMPILER USED FOR TESTING: SimplWindows Ver 2.03.18

SAMPLE PROGRAM: xiva Demo Program Version 4
Version 3 - Lengthened buffer for BrowseGenre\$ to eliminate error messages on 2-series systems

REVISION HISTORY:
Version 4 - Added Generate-Genre-Playlist function