

Crestron Electronics
Dynamic Cover Art
Device Type: Search Interface

**GENERAL INFORMATION**

SIMPLWINDOWS NAME:	Dynamic Cover Art v3.0
CATEGORY:	Miscellaneous
VERSION:	V3.0
SUMMARY:	Dynamic search engine for obtaining cover art HREF link to display on a touchpanel
GENERAL NOTES:	<p>This module requires .cuz 4.0 or greater.</p> <p>This module uses Amazon's XML database to retrieve an HREF link to an album art image. In order to use this module, you must provide an AWS Access Key ID, as well as a host name. Each request for cover art must be properly formatted and signed prior to sending to Amazon Web Services. The user must have an active AWS account and have both an access ID as well as a secret ID key that you will get assigned when you receive your access ID. Both the access ID and the secret ID key are required for proper functionality of this module.</p> <p>The Access Key ID and Secret ID is obtained by registering with Amazon at: http://aws.amazon.com/</p> <p>The actual URL required for searching is based on the local region:</p> <p>Local</p> <p>CA = ecs.amazonaws.ca</p> <p>DE = ecs.amazonaws.de</p> <p>FR = ecs.amazonaws.fr</p> <p>JP = ecs.amazonaws.jp</p> <p>UK = ecs.amazonaws.uk</p> <p>US = ecs.amazonaws.com</p> <p>Remember to properly configure the DNS server in the control system and the touchpanel.</p> <p>Timestamp = Connects to time.nist.gov and updates time using the Daytime Protocol (RFC-867). A properly formatted and signed request packet will also include a UTC timestamp which is obtained by the module prior to building the request packet. The module will open a socket to nist.gov to obtain the UTC timestamp and then will build and send a packet to another port for the AWS service. Both of these processes happen very quickly and are done using Direct Socket Access. The programmer is not required to place a TCPIP Client symbol in the program. The web connections are done behind the scenes inside the module.</p>
CRESTRON HARDWARE REQUIRED:	C2ENET-1, C2ENET-2
SETUP OF CRESTRON HARDWARE:	TCPIP Port: 80 (AWS) Port: 13 (time.nist.gov)
VENDOR FIRMWARE:	N/A

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VENDOR SETUP:	Make sure the processor has Ethernet access to the internet. Make sure all gateway and DNS settings are complete in the processor. The touchpanel will also have to be connected to the network. The panel's settings should also include the correct gateway and DNS settings in order to display the url returned by the module.
CABLE DIAGRAM:	Cat5

CONTROL:

Artist_String	S	Serial input to transport new Artist data into module
Album_String	S	Serial input to transport new album data into module

FEEDBACK:

Cover_Art_Search_Busy	D	High to indicate that the module is searching for cover art
Cover_Art_Image_Found	D	High to indicate that the module found cover art
Cover_Art_No_Image_Found	D	High to indicate that the module did not find cover art
Cover_Art_Data_Missing	D	High to indicate that either Artist or Album or Both data was missing in the request for cover art
Cover_Art_Data_the_Same	D	High to indicate that the data in the request is the same as the last request
Cover_Art_Search_Error	D	High to indicate that the server returned an error
Cover_Art_Best_HREF	S	Serial output containing a signal that holds the best HREF returned by the server
Cover_Art_Small_HREF	S	Serial output containing a signal that holds the small HREF returned by the server
Cover_Art_Medium_HREF	S	Serial output containing a signal that holds the medium HREF returned by the server
Cover_Art_Large_HREF	S	Serial output containing a signal that holds the large HREF returned by the server

PARAMETERS:

Subscription ID	S	Serial input for the user access ID key from Amazon Web Services
Secret ID	S	Serial input for the user secret ID key from Amazon Web Services

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**Host Name****S**

Serial input for the AWS host server. See list above for region

TESTING:**OPS USED FOR TESTING:** 4.001.1012 (Feb 17 2009)**SIMPL WINDOWS USED FOR TESTING:** 2.11.27.00**CRESTRON DB USED FOR TESTING:** 20.07.002.00**DEVICE DB USED FOR TESTING:** 22.05.004.00**SAMPLE PROGRAM:** N/A**REVISION HISTORY:** V. 3.0