

Overview

AMX Modero Touch Panels, TPI/4 Touch Monitors and TPDesign4 software include Computer Control, an innovative G4 features exclusively from AMX. Connect any laptop computer to the control network, plug in the NXA-USBCC AMX Computer Control USB stick (FG070-602) into the laptop, and experience complete access to your PC directly on the Touch Panel.



FIG. 1 NXA-USBCC - G4 COMPUTER CONTROL

The NXA-USBCC contains everything that you need to implement Computer Control functionality including:

- The amxCC server application
- The configCC configuration utility
- NetLinX cc-GuestPC Code Module
- Sample Code and Programming/Configuration Pages
- RoHS compliant

Specifications

NXA-USBCC SPECIFICATIONS	
Dimensions (HWD):	• 0.32" x 0.87" x 2.87" (8.0 mm x 22.0 mm x 73.0 mm)
Recommended Windows® Operating Requirements:	<ul style="list-style-type: none"> • Windows XP and Windows 2000 • 1 GHz (or higher) Pentium® processor • USB Port • 256 MB of RAM <i>Note: Other configurations may experience some performance impact while remote clients are connected.</i>
Recommended Macintosh® Operating Requirements:	<ul style="list-style-type: none"> • MAC OS 10.2 operating system • G4 machine or higher • 256 MB of RAM
Features:	
Port Compatibility	• USB 1.1 / 2.0
Read/write speed	• 1000 Kb/sec and 900 Kb/sec
LED	• Blue LED indicates the drive connection status
Operating /Storage Environments:	<ul style="list-style-type: none"> • Operating Temperature: 0° C (32° F) to 40° C (104° F) • Operating Humidity: 20% - 85% RH • Storage Temperature: -20° C (-4° F) to 60° C (140° F) • Storage Humidity: 5% - 85% RH
Included Accessories	<ul style="list-style-type: none"> • Lanyard (neck strap) • 64 MB USB stick • USB extension cable • Quick Start Guide (93-070-602)

G4 - COMPUTER CONTROL

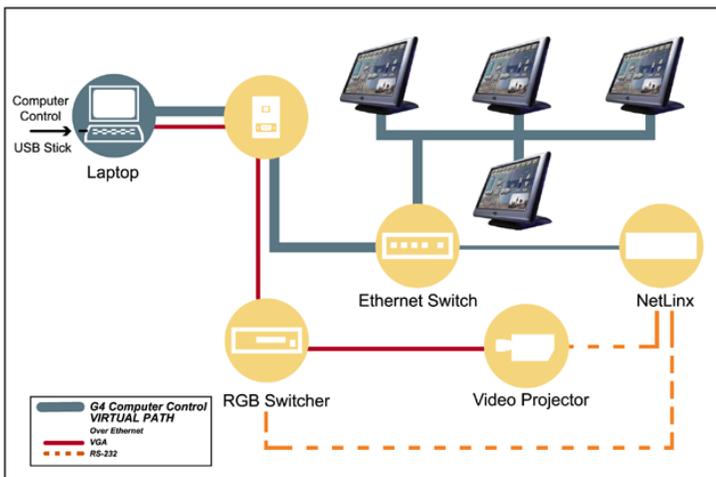


FIG. 3 G4 COMPUTER CONTROL CONFIGURATION

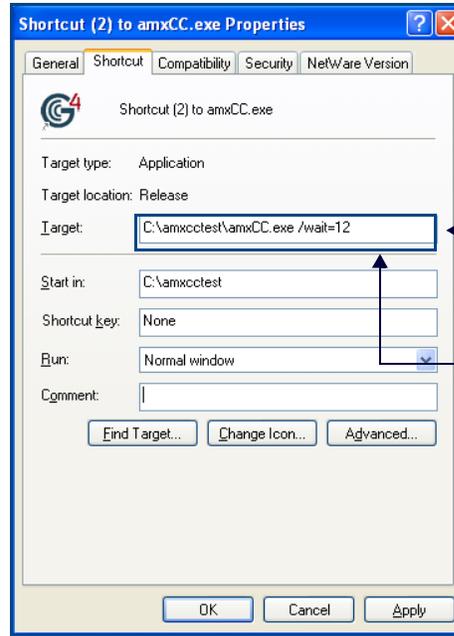


FIG. 2 AMXCC SHORTCUT DIALOG (SHOWING NEW COMMAND LINE ARGUMENT)

Note: G4 Computer Control has been modified to address security issues identified in conjunction with Windows XP Service Pack 2 and the placement of the application within the Windows Startup group.

- This modification includes a new command line argument in the form of `/wait=X`, where `X` refers to a number of seconds (*valid range = 5 to 120*) used to delay the G4 Computer Control application's startup. An argument outside of this range will default the wait to 20 seconds.
- This modification must be used to ensure proper application startup when placed within the Windows Startup group.

The addition of this argument to the G4 Computer Control shortcut (FIG. 2) (*found within the Startup group*) delays the execution of the application for the specified amount of time, ensuring that G4CC is capable of sending its initialization to known Masters after Windows XP has completed its startup procedures after which communication is then allowed.

Installing Computer Control

Step 1: Update AMX Hardware and Software

- Using NetLinX Studio v2.2 (or higher), transfer the most current product firmware to your Touch Panels and NetLinX Masters. Visit www.amx.com for the latest firmware files.
- Use the *WebUpdate* feature integrated in the TPDesign4 and NetLinX Studio software to update the applications if necessary. Alternatively, you could navigate to www.amx.com and download the latest versions of the programs.

Step 2: Develop a TPD4 project with G4CC Support

1. Launch TPDesign4 and open an existing project, or create a new one. Refer to the online help for instructions on using TPDesign4.
2. Create or open a panel page and draw a button that covers most or all of that panel page.
3. In the *General* tab of the Button Properties window, set the button's *Type* to **Computer Control**.
4. Either leave this field blank (preferred) or enter the **IP Address** of the Netlinx master in the *Remote Host* field.

Step 3: Modify the Source Code on your Master

Before you can use the Computer Control application, you must first modify the NetLinx Master Source Code to support the new (G4CC) functionality:

1. Insert the NXA-USBCC stick into a USB port on the PC to be controlled (FIG. 3). Confirm that a new USB detection icon () appears in the windows taskbar. *This icon does not appear on a MAC.*
2. Launch NetLinx Studio, select **File > Open**, navigate to the assigned USB stick drive and open the **cc-GuestPC Test.axs** file. This file acts as a source for the various communication parameters needed by the Master to allow the initial communication between the panel and the PC.
3. Scroll through the code in the **cc-GuestPC TEST.axs** file, and add the following information into your Master Source Code:
 - Add a Telnet device connection to your device definitions by copying the following information from the DEFINE_DEVICE section (of the **cc-GuestPC TEST.axs** file) and pasting it into your source code:
 - `vdvGuestPC = 0:5:0`
 - Add the entire Module Definition:

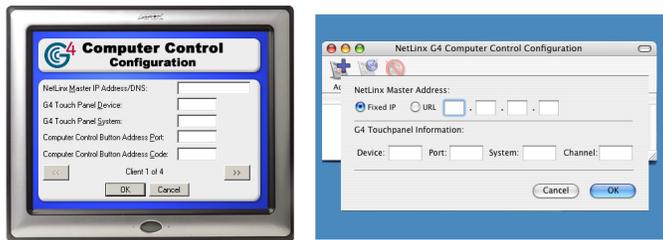

```
DEFINE_MODULE 'cc-GuestPCMod' <myModuleName> (<guestPcDevice>)
where:
<myModuleName> - local name for this instance of the cc-GuestPC module
<guestPcDevice> - device for cc-GuestPC to use for internal data events; this should be a DEFINE_DEVICE for the events to work properly
```
4. Save and close the **cc-GuestPC Test.axs** file.
5. Right-click the **Module** folder (in the Workspace containing your current Project), and select **Add Existing Module File**.
6. Navigate to the Module folder on the USB stick, and select ***.tko** from the *Files of type* field.
7. Select the **cc-GuestPC.tko** file and click **Open > OK**. This file needs to be added to your Workspace and compiled with the source code.
8. Save your Workspace, verify that your source code is designated as the Master source code file, and then press **F7** to begin compiling your Master Source Code and Module file. This process creates the **.tkn** file that is transferred to the Master.
9. Verify that your Master is online and communicating and select **Tools > File Transfer** to open the *File Transfer* dialog. Click the **Add** button to open the Select Files for File Transfer dialog, open to the *Current Workspace* tab.
10. Locate the compiled ***.tkn** file and select it for transfer. Click **OK** to return to the File Transfer dialog.
11. Click **Send** to transfer the selected **tkn** file to the target Master.

Step 4: Configure Computer Control

configCC.exe (included on the USB stick) is the Configuration Utility for G4CC. Use this application to designate up to four Modero or TPI/4 panels that will be allowed to control this computer.

1. Use the computer's file browser to navigate to the assigned USB stick drive location and open the **Computer Control > Config** folder.
2. Use the **configCC.exe** application (on the USB stick) to configure the G4CC application. Double-click the **configCC.exe** (*AMX G4CC Config on a MAC*) to run the configuration utility.

The following information is needed by the Computer Control Configuration Utility (FIG. 4) for each G4 panel or TPI/4 interface:



Config CC application - PC

AMX G4CC Config app - MAC

FIG. 4 G4 COMPUTER CONTROL CONFIGURATION SCREEN

- **NetLinx Master IP Address/DNS** (Fixed IP/URL): _____
(Acquire the IP Address of the Master via NetLinx Studio: *select Diagnostics > Network Addresses > Get IP Information*).
- **G4 Touch Panel Device ID:** _____
(Acquire the panel device number in the online tree of NetLinx Studio).
- **G4 Touch Panel System:** _____
(Acquire the system number in the online tree of NetLinx Studio).
- **Computer Control Button Address Port:** _____
(Acquire this number via TPD4, in the Programming Tab of the Button Properties window).
- **Computer Control Button Address Code (Channel):** _____
(Acquire this number via TPD4, in the Programming Tab of the Button Properties window). This information was previously entered into the Address Code field for the Computer Control button.
- Press the **OK** button when finished adding a single panel. This action modifies the **amxCC.cfg** file and stores your settings until the values within the **configCC.exe** file are altered. Once the USB Control Stick has been configured, it can be used on any computer residing on the Ethernet Network that can communicate with the NetLinx Control System.
- Add multiple panels using the *Next* button () on the PC configuration utility screen or *Add* () on the **MAC** (maximum of four panels).

Step 5: Run the Computer Control Application

1. Once the configuration file has been created, double-click the **amxCC.exe** file, located in the Computer Control folder, to begin your G4CC session and display the G4CC icon () in the taskbar. The icon turns green () when a Modero or TPI/4 panel is connected to the computer.
2. Upon opening this file, your PC will be displayed on the touch panel.
3. To terminate your Computer Control session, right-click on the G4CC icon and select **Close Computer Control** from the menu.

While you can have between 1 and 4 masters/panels connected to the PC you should not connect more than one PC to any one master/panel.

Warranty Exception

AMX Corporation warrants this product to be free of defects in material and workmanship under normal use for 30 days from the date of purchase from AMX Corporation. This product is not eligible for credit return.



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