

**Overview**

The MXT-2000XL-PAN 20.3" Modero X Series<sup>®</sup> Panoramic Tabletop Touch Panel (FG5968-01) features a beautiful, panoramic capacitive multi-touch screen that provides users access to multiple applications with minimal navigation. It is hardware-ready for support of Near Field Communication™ (NFC) Technology to allow personalization of the user experience and productivity enhancing capabilities through integration with NFC capable personal devices.

The distinctive, low-profile design is engineered to sit perfectly on a table without obstructing views.



FIG. 1 MXT-2000XL-PAN

**Product Specifications**

MXT-2000XL-PAN SPECIFICATIONS	
Dimensions (HWD)	9 3/16" x 20 3/8" x 5 7/8" (235mm x 519mm x 150mm)
Weight	12.3 lbs (5.58 Kg)
Power Consumption	Full-On: 35 W (13.5V <sup>DC</sup> , 2.6A) Standby: 7 W (13.5V <sup>DC</sup> , 0.52A)
External Power Supply Required	Requires one of these AMX power sources (not included): <ul style="list-style-type: none"> <li>• PSR4.4 Power Supply, 4.5A, 3.5 mm Phoenix with Retention Screws (FG423-46)</li> <li>• PSN4.4 Power Supply, 4.5A, 3.5 mm Phoenix, 13.5V<sup>DC</sup> (discontinued) (FG423-45)</li> <li>• MXA-MPL Modero X/S Series Multi Preview Live (FG5968-10)</li> <li>• MXA-MP Modero X/S Series Multi Preview (FG5968-20)</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• FCC Part 15 Class B</li> <li>• C-Tick CISPR 22 Class B</li> <li>• CE EN 55022 Class B and EN 55024</li> <li>• CB Scheme IEC 60950-1</li> <li>• IC</li> <li>• IEC/EN-60950</li> <li>• UL 60950-1</li> <li>• RoHS/WEEE compliant</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>• Temperature (Operating): 32°F to 104°F (0°C to 40°C)</li> <li>• Temperature (Storage): 4°F to 140°F (-20°C to 60°C)</li> <li>• Humidity (Operating): 20% to 85% RH</li> <li>• Humidity (Storage): 5% to 85% RH</li> <li>• Power ("Heat") Dissipation: On: 119.4 BTU/hr Standby: 23.9 BTU/hr</li> </ul>
Included Accessories	<ul style="list-style-type: none"> <li>• Locking 2-pin Phoenix mate (41-0002-SA)</li> <li>• MXA-USB-C, USB Port Cover Kit (FG5968-18)</li> <li>• HPG-10-10K, 3/4" Mini-Grommet (FG570-01)</li> <li>• MXA-CLK, Modero X/S Series Cleaning Kit (FG5968-16)</li> </ul>

**Connector Locations**

Two Type A USB ports are located on the rear right corner of the device (FIG. 2).

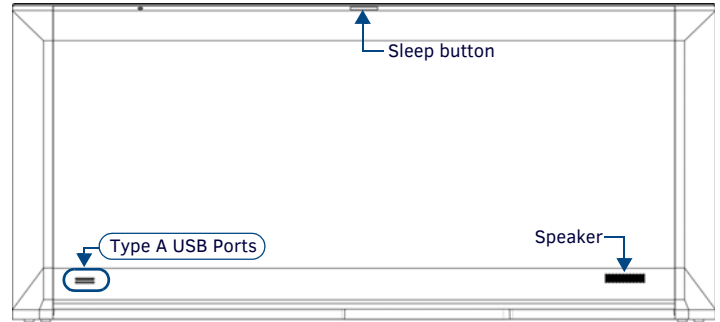


FIG. 2 MXT-2000XL-REAR VIEW

USB peripherals (mouse, keyboard, etc.) may be connected to either of the two USB ports on the rear of the device.

The power and Ethernet connectors, as well as an additional USB port are located on the bottom of the device ( FIG. 3).

The underside USB port, as well as the two rear USB ports, may be used with a flash drive for page transfers or firmware upgrades.

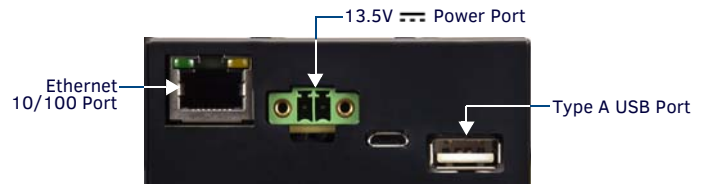


FIG. 3 MXT-2000XL-PAN UNDERSIDE CONNECTORS

The MXT-2000XL-PAN does not have individual channels on the base of the device to allow passage of cables from underneath the base. Instead, it has one slot at the base to allow options on cable configuration, with channels for securing power and Ethernet cables (FIG. 4).

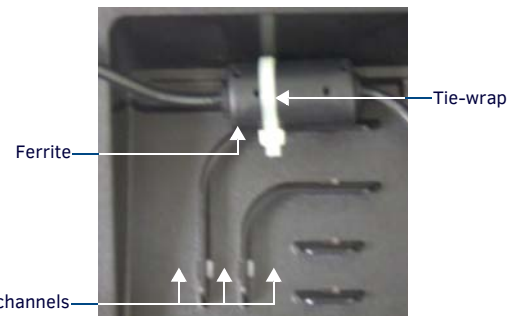


FIG. 4 TIE-WRAP FOR POWER CONNECTOR FERRITE

Each channel side has slots for attaching tie-wraps to secure each cable. The ferrite on the power cable must be secured with the included tie-wrap during installation to prevent the possibility of the panel not sitting flush on the table. Other cables may be secured with tie-wraps if desired, but this is not necessary.

**Wiring Guidelines**

The MXT-2000XL-PAN uses a 13.5V<sup>DC</sup>-compliant power supply to provide power to the panel via the 2-pin 3.5 mm captive wire PWR connector.

The incoming PWR and GND wires from the power supply must be connected to the corresponding locations within the PWR connector.

*Note: Apply power to the panel only after installation is complete.*

*Note: Connecting power to the MXT-2000XL-PAN should be done using the included 2-pin 3.5mm captive wire connector included with the device. This connector is retained within its port with locking screws instead of the pins on each side of standard captive wire connectors, and using force to insert a standard captive wire connector may damage the device.*

## Wiring a Power Connection

To use the 2-pin 3.5 mm captive wire connector with a 13.5V $\overline{\text{DC}}$ -compliant power supply, the incoming PWR and GND wires from the external source must be connected to their corresponding locations on the connector (FIG. 5).

The connector uses locking screws to insure a connection to the device, so make sure to insert and tighten the screws before applying power.

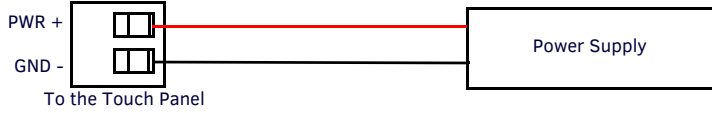


FIG. 5 NETLINX POWER CONNECTOR WIRING DIAGRAM

1. Insert the PWR and GND wires on the terminal end of the 2-pin 3.5 mm captive wire cable. Match the wiring locations of the +/- on both the power supply and the terminal connector.
2. Tighten the clamp to secure the two wires. Do not tighten the screws excessively; doing so may strip the threads and damage the connector.
3. Verify the connection of the 2-pin 3.5 mm captive wire to the external 13.5V $\overline{\text{DC}}$ -compliant power supply and apply power.

## Powering On/Off X Series Panels

Modero X Series touch panels may be powered on by touching and holding the Sleep button. To power off the panel, press and hold the Sleep button, and select **Power Off** on the on-screen menu (FIG. 6):

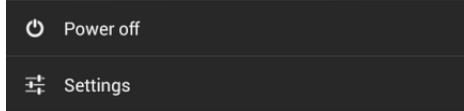


FIG. 6 SLEEP BUTTON - PRESS AND HOLD TO ACCESS POWER OFF/SETTINGS OPTIONS

## Configuration and Programming

X Series touch panels are equipped with a *Settings* menu that provides the ability to configure various features on the panels. To access the *Settings* menu, press and hold the Sleep button, and select **Settings**.

*Note: Information on the Settings menu, panel configuration, and programming is provided in the Modero X Series Programming Guide, available at [www.amx.com](http://www.amx.com).*

### Setting the Panel's Device Number and Device Name

1. In the Settings menu, select **NetLinX**. This opens a password keypad.
2. Enter the panel password into the keypad (the default is **1988**) and select **OK** to access the *NetLinX* page.
3. Press **Device Number** to open the *NetLinX* editing window.
4. Enter a unique Device Number assignment for the panel and press **OK**.
5. Enter a unique Device Name assignment for the panel and press **OK**.

## Configuring the Panel's IP Address

The first step is to configure the panel's IP address. Note that this only configures the panel to communicate with a network; it is still necessary to connect to the *NetLinX Master* (see *Connecting to a NetLinX Master* below).

### Network Communication via DHCP

1. In the *Ethernet* page, press **DHCP/Static** field to open the *DHCP/Static* window. Note that *DHCP* is the default setting.
2. Select **Host Name**, enter the new host name
3. Press **OK** to save changes.

### Network Communication via Static Address

1. In the *Ethernet* page, press **DHCP/Static** to open the *DHCP/Static* window.
2. Select **Static** to open the *Static IP* window.
3. Press any field to open a keypad or keyboard (depending on the field), and enter the appropriate network address information.
4. Press **OK** to save your changes and return to the *Ethernet* page.

## Connecting to a NetLinX Master

To establish the type of connection to make between the panel and the *NetLinX Master*:

1. In the *NetLinX* page, press **Mode** to choose the connection mode (*URL*, *Listen* or *Auto*):

CONNECTION MODES		
Mode	Description	Procedures
URL	The device connects to the target Master's IP address via a TCP connection.	<ol style="list-style-type: none"> <li>1) Select <b>URL</b> in the <i>Mode</i> menu.</li> <li>2) Enter the Master IP/URL, Master Port Number, and Username/Password (if required by the Master).</li> <li>3) Press <b>OK</b> to save changes.</li> </ol>
Listen	This mode allows the panel to "listen" for the Master's communication signals. Note that in this mode, the <i>System Number</i> and <i>Master IP/URL</i> fields are read-only.	<ol style="list-style-type: none"> <li>1) Select <b>Listen</b> in the <i>Mode</i> menu.</li> <li>2) Confirm the panel's IP address is on the Master's URL list (via <i>NetLinX Studio</i>).</li> <li>3) Press <b>OK</b> to save changes.</li> </ol> <p><i>Note: The Host Name (set on the Ethernet page), can be used to locate the panel on the Master (particularly useful for DHCP connections where the IP address can change).</i></p>
Auto	Use this mode when both the panel and the <i>NetLinX Master</i> are on the same Subnet.	<ol style="list-style-type: none"> <li>1) Select <b>Auto</b> in the <i>Mode</i> menu.</li> <li>2) Enter the System Number and Username and Password (if applicable).</li> <li>3) Press <b>OK</b> to save changes.</li> </ol>

2. If password security is enabled on the target Master, enter the Username and Password:
  - a. Select **Username** to open the *NetLinX* window.
  - b. Enter the *Username* and *Password* required by the Master.
  - c. Press **OK** to save changes and return to the *NetLinX* page.

### Related Software and Additional Documentation (at [www.amx.com](http://www.amx.com))

- Programming the Modero X Series touch panels requires the use of the latest versions of *NetLinX Studio* and *TPDesign4*, both available to download at [www.amx.com](http://www.amx.com). Refer to the *NetLinX Studio* and *TPDesign4* online help for information.
- For additional information on the MXT-2000XL-PAN panel, refer to the *X-Series Touch Panels MXD/T-2000XL-PAN & MXD/T-1900L-PAN Instruction Manual*.
- For detailed information on the Settings menu as well programming information and instructions on upgrading firmware, refer to the *Modero X Series Programming Guide*.
- Detailed specifications drawings for the MXD/T-2000XL-PAN are available to download from [www.amx.com](http://www.amx.com).

