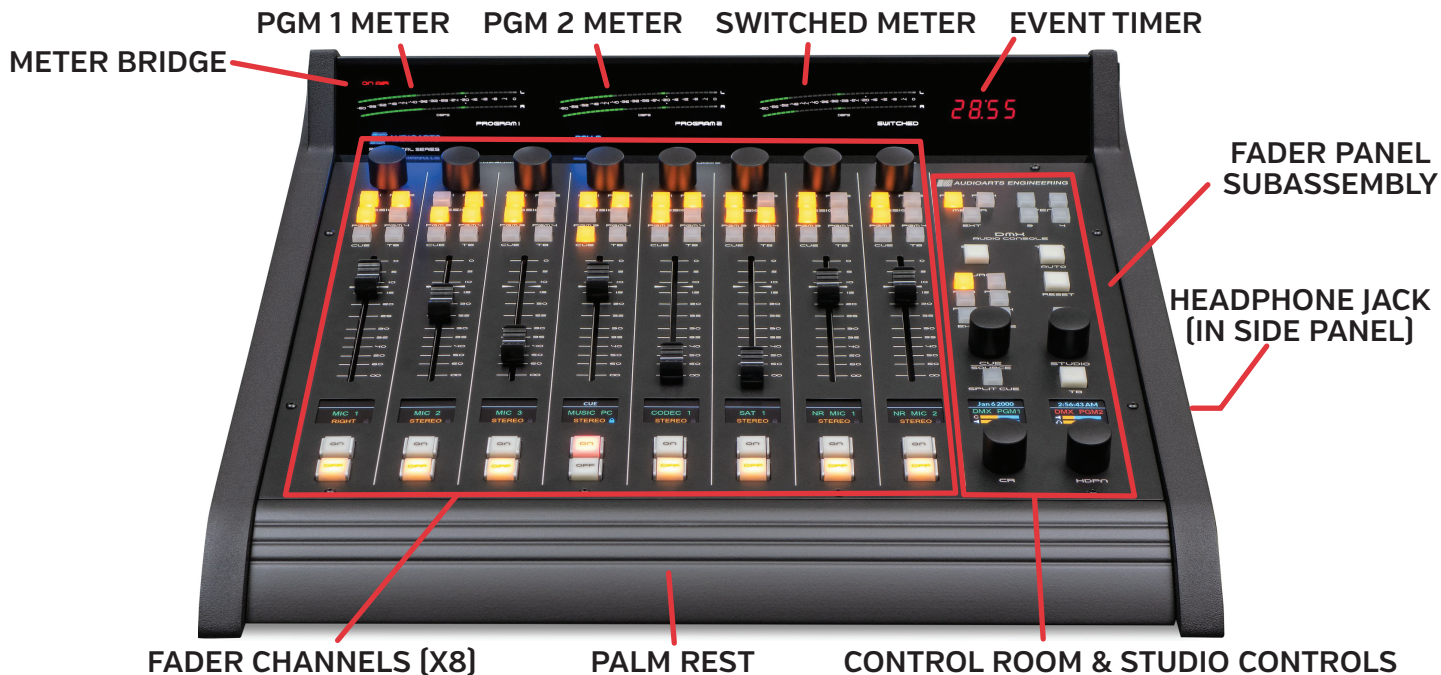


# DMX NETWORKED BROADCAST CONSOLE

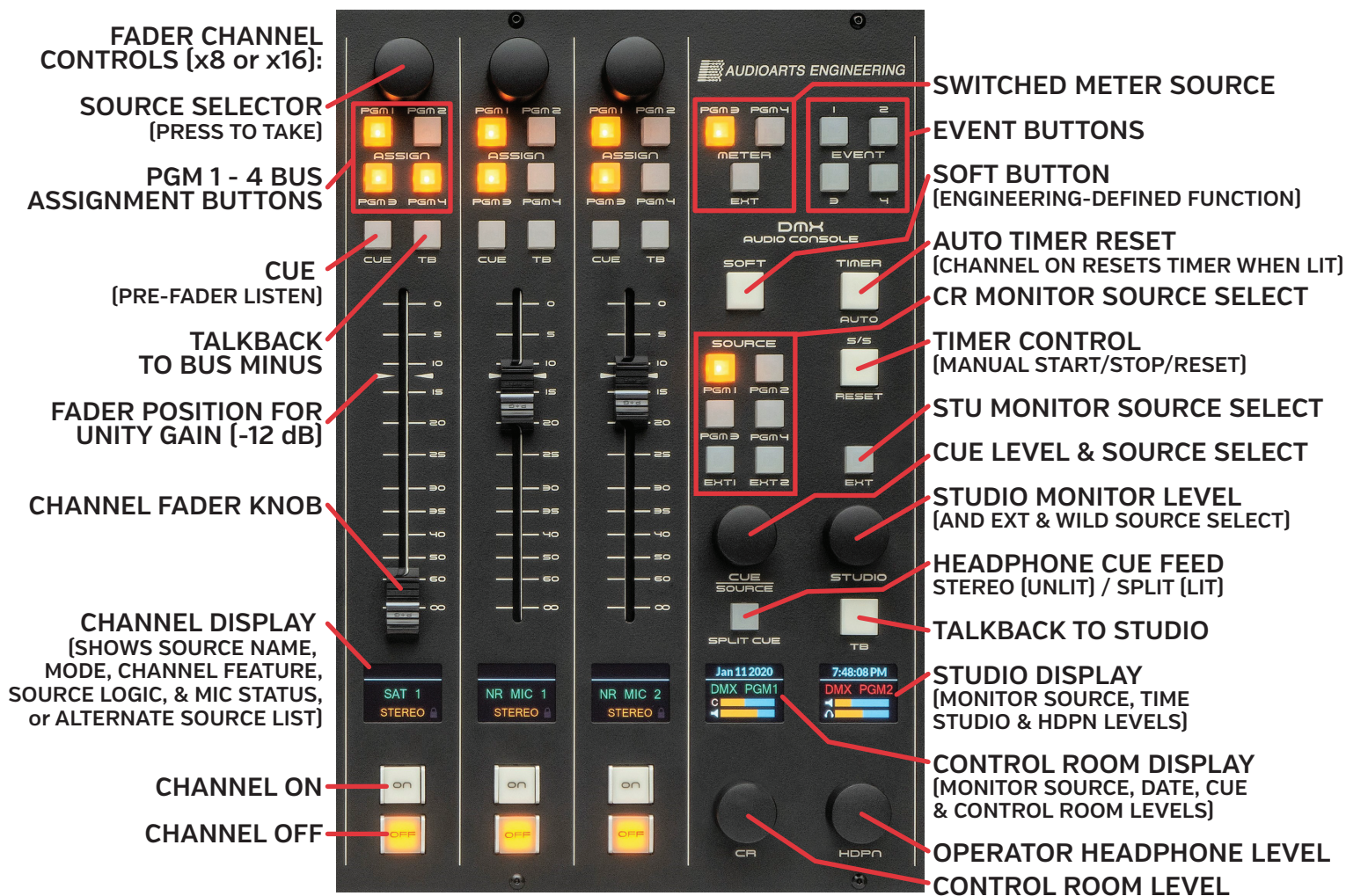
## Quick Guide

DMX-8: 083402  
DMX-16: 083401

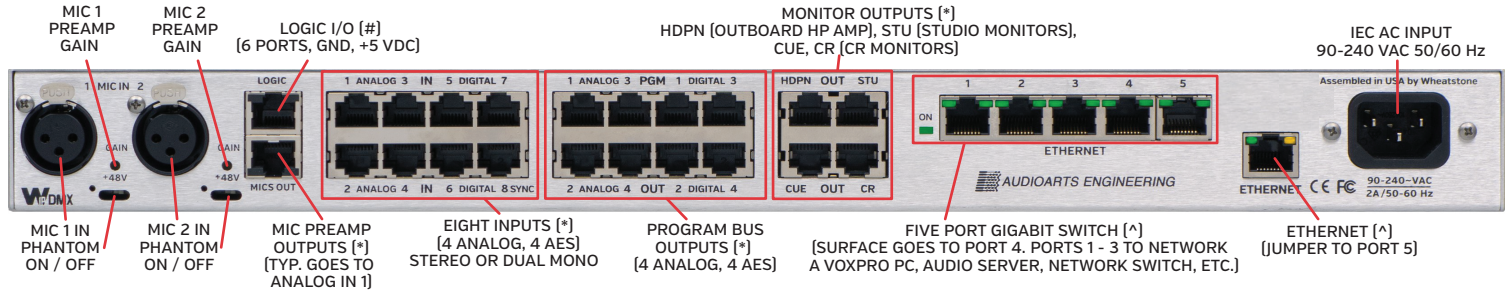
### DMX-8 SURFACE PART IDENTIFICATION [DMX-16 HAS EIGHT ADDITIONAL FADER CHANNELS]



### BOARD OPERATOR CONTROLS



### MIX ENGINE REAR PANEL JACKS



### SURFACE & MIX ENGINE CONNECTIONS

Remove the upper rear cover from the Surface [#1 Phillips screws] to access the DC power and Ethernet jacks. Position the Surface on your countertop then mark and drill a one to two inch cable access hole below the Surface for the DC and Ethernet cables.



Surface DC Power & Ethernet Connections

The DMX Surface has a +16V DC in-line power supply with a six-foot detachable IEC AC cord and captive six-foot DC cable. An isolated-ground AC outlet is required for this supply near the rear of the Surface. Connect the captive DC power cable to the Surface's DC power jack. Tighten the threaded collar onto the DC jack to lock the plug. Connect a customer-supplied CAT5e or CAT6 cable from the Surface's Ethernet jack to PORT 4 on the Mix Engine's switch. Replace the upper rear cover.

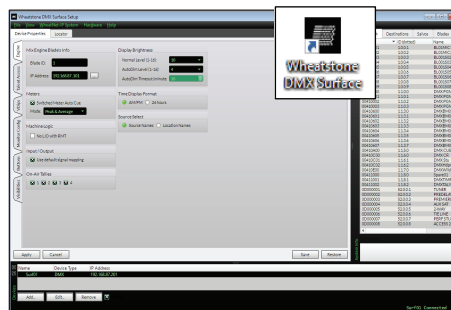
The rack-mounted Mix Engine also has a six-foot detachable IEC AC cord so an isolated ground AC outlet must be available near its rear panel. On the back of the Mix Engine, install the short CAT5 cable [supplied] from the ETHERNET jack to PORT 5 on the Gigabit switch. Plug in the supplied IEC AC cord into the Mix Engine and connect it to an isolated ground AC outlet. It takes about two minutes for the Mix Engine and Surface to complete their power up process and be ready to use with their default configuration settings.

### DMX SURFACE & MIX ENGINE CONFIGURATION

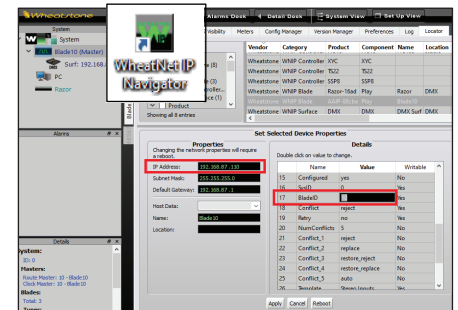
The DMX includes a USB thumb drive with the DMX Surface Setup and Navigator app installer files. These apps are used to configure the DMX console and manage network signal connections. The apps can be installed on any Win 7 - 11 PC or current Windows server with at least 1 GB of RAM, a 1.8 GHz or faster CPU, and two NICs: one for remote access, the other to connect that PC to your DMX switch or WNIP network. Set the NIC for the DMX to a fixed IP address [192.168.87.11 is recommended]. Use a straight-thru CAT5 or CAT6 cable [customer-supplied] to connect that PC to Port 1, 2, or 3 on the Mix Engine switch. DMX devices have these IP addresses assigned at the factory: 192.168.87.201 [DMX Surface], 192.168.87.101 [Mix Engine, ID 1], 192.168.87.50 [Analog Razor, ID 50], 192.168.87.60 [AES Razor, ID 60], and 192.168.87.70 [Analog & AES Razor, ID 70]. These should be changed from their default settings if you plan on adding additional equipment in the future. See Appendix A of the DMX manual about how to do a factory reset on the Mix Engine or Razor to change their ID, IP address, and default signals names. Once can also use Navigator's Locator tab to select the Mix Engine [Product: AAIP-88CBE] and manually edit its IP address in the Properties section and its Blade ID in the Details section, as shown below right highlighted in red. Each WNIP device must have a unique IP address. Blades must also have a unique ID number. When manually editing the settings click Apply then Reboot. When the Mix Engine again appears in the Locator tab, select the Surface [Name: DMXSurf]. In Properties, change the Host Data to the Mix Engine's new IP address using the drop down list. Set its IP address to be 100 above the Mix Engine [e.g. if the Mix Engine is .102, use .202 for the DMX Surface]. In the Details pane, edit the BladeID to the ID # assigned to the Mix Engine. Click Apply then Reboot to restart the Surface to use the new settings.

Use the DMX Surface Setup app to configure the Surface for a specific application [on-air, production, newsroom, etc.] by setting various Surface options using the five page tabs on the Device Properties tab [the main view for the app, which is shown below, left]. Surface options include "marrying" the Surface to a specific Mix Engine; setting which sources are visible on each channel; what advanced features are available for access by the board operators; and Soft button programming.

Navigator is then used to edit the default signal names, set their format, and assign logic to system signals. For day-to-day use, Navigator is used to connect sources to destinations in various ways: using an XY Crosspoint grid, by creating and taking Salvos [useful for setting up shows, remotes, or dayparts], keeping track of system operations in the Log tab, uploading new code to the Mix Engine and Razor in the Version Manager tab, and perform other common system control and configuration functions. Details on using the DMX Surface Setup and Navigator apps are in the DMX User Manual.



DMX Surface Setup Icon & Device Properties Tab



Navigator Icon & Locator Tab

### CONNECTOR WIRING [EIA/TIA T568B wiring]

\* STUDIOHUB+ WIRING

RJ45 PIN [WIRE]	ANALOG / AES
1 (WHT/ORG)	Left + / AES +
2 (ORG)	Left - / AES -
3 (WHT/GRN)	Right + / NC
6 (GRN)	Right - / NC
4,5,7,8	No Connection

# WNIP LOGIC WIRING

RJ45 PIN [WIRE]	SIGNAL
1 (WHT/ORG)	GND
2 (ORG)	Logic 1
3 (WHT/GRN)	Logic 2
4 (BLU)	Logic 3
5 (WHT/BLU)	Logic 4
6 (GRN)	Logic 5
7 (WHT/BRN)	Logic 6
8 (BRN)	+5 Volts

^ ETHERNET WIRING

RJ45 PIN [WIRE]	SIGNAL
1 (WHT/ORG)	TRANSMIT+
2 (ORG)	TRANSMIT-
3 (WHT/GRN)	RECEIVE+
4 (BLU)	N/C
5 (WHT/BLU)	N/C
6 (GRN)	RECEIVE-
7 (WHT/BRN)	N/C
8 (BRN)	N/C