

Part 2

Quick Start Guides

Emagic Logic Audio 4

The 328XD is capable of the following functions when used in conjunction with Emagic Logic Audio version 4.x.

- Full recording and editing of 328XD dynamic automation data across multiple tracks
- Bi-directional communication with any programmed 328XD environment objects
- Bi-directional control of the Logic Audio mixer from the 328XD MIDI Controller bank
- Transport control and timecode display
- Control of compatible VST Plugin parameters from the 328XD MIDI Controller bank
- Control of compatible VST Instrument parameters from the 328XD MIDI Controller bank
- Remote request of 328XD MIDI Dumps from within Logic

NOTE: Logic Audio Environment layer must be correctly programmed or imported to enable these functions. For more information on the Environment, the documentation supplied with Logic Audio should be consulted.

For the configurations below, it is assumed that you have a working knowledge of Logic Audio for Mac or PC.

AUTOMATING THE 328XD WITH LOGIC AUDIO

Firstly ensure that 328XD MIDI Dynauto is set to ON and that the console is in READ/WRITE automation mode.

Launch Logic Audio.

Open the Environment window and create a new 328XD layer. On this layer create a new Instrument (not a Multi Instrument). In the Object Parameters window, label the new instrument 'Digital 328XD', set the MIDI Out port correctly and set it to transmit on all MIDI channels.

Open the Options | Settings | MIDI Settings window and set the 'Instrument with no MIDI Thru function' to the 328XD instrument. If you have additional devices that require MIDI Thru to be disabled, such as a second 328XD, you should download the Linked 328XD MIDI Thru Off Environment layer from the Soundcraft website and follow the instructions.

Ensure that the 328XD MIDI In port is cabled to the Sequencer Input object.

Return to the Arrange window within Logic.

Set a track to the 328XD instrument you have just created and click on Record on the Logic transport control to begin recording.

Record and play back an automation pass. Refer to **Section 4 - Automation Techniques** for more information.

For further automation passes, create additional 328XD tracks within Logic.

CONTROLLING THE LOGIC AUDIO MIXER FROM THE 328XD

Set the 328XD MIDI Controllers as follows (see **Section 3J Part 5.3**):

Controller Number	328XD Controller	MIDI Channel	Continuous Controller ID
1	Fader 1	1	7
2	Fader 2	2	7
...	...	...	...
16	Fader 16	16	7
17	Encoder 1	1	10
18	Encoder 2	2	10
...	...	...	...
32	Encoder 16	16	10
33	Solo 1	1	3
34	Solo 2	2	3
...	...	...	...
48	Solo 16	16	3
49	Mute 1	1	9
50	Mute 2	2	9
...	...	...	...
64	Mute 16	16	9

The MIDI Controller Preset and Environment layer provide bi-directional control of the fader, pan controls, mute and solo for Audio Objects 1-16 from the 328XD MIDI Controller bank. If you wish to alter which audio faders are controlled, you must have a working knowledge of the Logic Environment.

CONTROLLING LOGIC TRANSPORT CONTROLS FROM THE 328XD

Within the Logic Environment, ensure that the 328XD MIDI input port is connected to the Sequencer Input object.

The 328XD Tape Machine Setup should be configured to transmit MIDI Note On commands from the Transport Controls (see **Section 3J Part 5.13**).

Open the Options | Settings | Key Commands window within Logic.

Highlight the Record key command and click the Learn MIDI button. Press Record on the 328XD Transport Controls.

Do the same for Play, Stop, Rewind, Forward, Goto Left Locator and Goto Right Locator.

Disable the Learn MIDI button and click MIDI Remote.

TRANSMITTING MIDI TIMECODE TO THE 328XD

Ensure that the 328XD is set to respond to incoming MIDI Timecode (see **Section 3J Part 5.13**).

Open the Options | Settings | Synchronization Settings window and click the MIDI tab.

In the Transmit MTC MIDI Port settings menu, set the MIDI Out port to which the 328XD is connected and check the box to enable.



The MIDI Notes assigned to the 328XD Transport Controls do not have to be assigned to Logic Transport Controls. You could, for example, set the Loc1 switch to open the Matrix Editor within Logic.

Steinberg Cubase VST 5

The 328XD console is capable of the following functions when used in conjunction with Steinberg Cubase VST.

- Full recording and editing of 328XD dynamic automation data across multiple tracks
- Control of the 328XD from a suitable Cubase Mixer Map
- Bi-directional control of the VST mixer from the 328XD MIDI Controller bank
- Transport control and timecode display
- Control of compatible VST Plugin parameters from the 328XD MIDI Controller bank
- Control of compatible VST Instrument parameters from the 328XD MIDI Controller bank

NOTE: A Cubase VST Mixer Map must be correctly programmed or loaded to enable this function. For more information on the Mixer Maps, the documentation supplied with Cubase VST should be consulted.

For the configurations below, it is assumed that you have a working knowledge of Cubase VST.

AUTOMATING THE 328XD WITH CUBASE VST

Firstly ensure that 328XD MIDI Dynauto is set to ON and that the console is in READ/WRITE automation mode.

Launch Cubase VST.

Open a song, and create a new MIDI track.

Go to Options | MIDI Setup | System and uncheck the MIDI Thru Enabled box.

In the Track Inspector set the track output to the 328XD MIDI Port, and set the track to output on "any" MIDI Channel. This method will ensure the data recorded is sent out on the correct channel.

Go to Options | MIDI Setup | System and under the 'Input From' section click the pull down window and ensure your 328XD MIDI Input port is ticked.

Click on Record on the Cubase VST transport control to begin recording. Now make your automation moves.

Record and play back an automation pass. Refer to **Section 4 Part 1** for more information.

For further automation passes, create additional 328XD tracks within Cubase VST.

CONTROLLING CUBASE VST FROM THE 328XD

Download the Cubase VST 328XD MIDI Controller Preset from the Soundcraft website and follow the instructions.

The MIDI Controller Preset provides bi-directional control of the fader, pan controls, mute and solo for Cubase VST Audio Channels 1-16, 17-32, 33-48, 49-64 from the 328XD

MIDI Controller bank. If you are using linked consoles you can have the client also controlling the VST Mixer. Using the Generic Remote you can also setup the 328XD MIDI Controller bank to control VST Channel EQ In/Out, EQ Gain, EQ Frequency, EQ Quality, FX Send Levels and much more. Please refer to Steinberg Cubase VST documentation for more information.

CONTROLLING CUBASE TRANSPORT CONTROLS FROM THE 328XD

Within Cubase, go to Edit | Preferences | Key Commands and select the 'Transport' tab. Ensure Remote Active and Remote Key are both ticked and that Remote Key is set to "C6"

On the 328XD go to the Tape Mach Setup menu, and configure the 328XD to transmit Note On commands from the Transport Controls (see Section 3J Part 5.13)

TRANSMITTING MIDI TIMECODE TO THE 328XD

Ensure that the 328XD is set to respond to incoming MIDI Timecode (see **Section 3J Part 5.13**).

Within Cubase, go to Options | Synchronisation and ensure that the Frame rate matches the Frame rate set on the 328XD.

Open the pull down menu labeled 'MIDI Timecode' and ensure the 328XD MIDI port is ticked. This will tell Cubase VST to send MIDI Timecode to the 328XD.

MOTU Digital Performer 2.7

The 328XD console is capable of the following functions when used in conjunction with Digital Performer version 2.7 or later.

- Full recording and editing of 328XD dynamic automation data across multiple tracks
- Bi-directional communication with any pre-programmed 328XD objects
- Control of Digital Performer's Mixing Board from the 328XD MIDI Controller bank
- Transport control and timecode display
- Remote request of 328XD MIDI Dumps from within Digital Performer

A Digital Performer Custom Console for the 328XD is available for download from the Soundcraft website. It offers control of several 328XD parameters and may be a useful tool for productions.

For the configurations below, it is assumed that you have a working knowledge of Digital Performer, FreeMIDI, and the Macintosh environment.

AUTOMATING THE 328XD WITH DIGITAL PERFORMER

Verify that 328XD MIDI Dynauto is set to ON and that the console is in READ/WRITE automation mode. Also make sure that MIDI In and Out connections are made between the 328XD and a MIDI interface.

Launch FreeMIDI and create a 'New' device. Name this device "Digital 328XD" and set parameters as follows:

Transmit Channels 1-16
Receive Channels 1-16
Controller

Receives MTC
Transmits MTC
Transmits MMC

Save this FreeMIDI setup and exit FreeMIDI.

Launch Digital Performer.

Disable MIDI Patch Thru under the Basics Menu. If this is not set, MIDI feedback will result, preventing smooth fader movement.

In the Tracks window in Digital Performer, create a new MIDI track and set its output to 'Digital 328XD-1'. Click on Record in the transport control to begin recording.

Record and play back an automation pass. Refer to **Section 4 - Automation Techniques** for more information. Also, refer to the **328XD Automation Specification** to match automation parameters to the correct MIDI channels.

For further automation passes, create additional 328XD tracks within Digital Performer.

CONTROLLING DIGITAL PERFORMER FROM THE 328XD

Download the Digital Performer MIDI Controller Preset for the 328XD from the Soundcraft website. Dump the file into the 328XD according to the attached instructions - or set the 328XD MIDI Controllers as follows (see **Section 3J Part 5.3**):

Controller Number	328XD Controller	MIDI Channel	Continuous Controller ID
1	Fader 1	1	1
2	Fader 2	1	2
...	...	...	...
16	Fader 16	1	16
17	Encoder 1	1	17
18	Encoder 2	1	18
...	...	...	...
32	Encoder 16	1	32

Next, go to the Mixing Board page within Digital Performer. In the Mixing Board sub-menu, select 'Attach MIDI Controller'.

Immediately click on a desired fader or pan control in Digital Performer - the control will become surrounded with a red 'frame' indicating that it is set to receive a Continuous Controller ID.

Put the console into MIDI Controller bank, and move the desired fader. If you inadvertently move a fader while in a mode other than MIDI Controller mode, you may not achieve satisfactory results.

If your settings are correct, the red 'frame' in Digital Performer will turn light green, indicating that the controller has been successfully attached.

To add more controllers, immediately repeat the above steps.

To end and confirm choices, click on any other window, or hit ENTER on your computer keyboard.

CONTROLLING DIGITAL PERFORMER TRANSPORT CONTROLS FROM THE 328XD

Due to the nature of Transport Control Settings and Digital Performer, please refer to the Digital Performer Setup Guide for a detailed explanation. It can be downloaded from the Soundcraft website.

TRANSMITTING MIDI TIMECODE TO THE 328XD

Ensure that the 328XD is set to respond to incoming MIDI Timecode (see **Section 3J Part 5.13**).

Under the Basics Menu in Digital Performer, select 'Transmit Sync'. MIDI Time Code will now be routed to the 328XD.

USING THE DIGITAL PERFORMER CUSTOM CONSOLE

At this time, only certain parameters work well for two-way communication. These are included in the Custom Console marked "328XD Two-Way". A separate Custom Console is included for every parameter on the console, and is marked "328XD One-Way". The one-way console is to be used to send commands only to the 328XD from Digital Performer.

Simply launch the Custom Console window in Digital Performer. If the FreeMIDI and Digital Performer connections have been properly made, operation should be enabled.

Cakewalk Pro Audio 9, Sonar

The 328XD console is capable of the following functions when used in conjunction with Cakewalk Pro Audio 9 or Sonar.

- Full recording and editing of 328XD dynamic automation data across multiple tracks
- Bi-directional communication with correctly programmed Cakewalk StudioWare Panels
- Transport control and timecode display
- Remote request of 328XD MIDI Dumps from within Sysex Manager

NOTE: A Cakewalk StudioWare Panel and the Sysex Manager must be correctly programmed or imported to enable these functions. For more information on StudioWare Panels and the Sysex Manager, the documentation supplied with Cakewalk Pro Audio or Sonar should be consulted.

For the configurations below, it is assumed that you have a working knowledge of Cakewalk Pro Audio 9 or Sonar.

AUTOMATING THE 328XD WITH CAKEWALK PRO AUDIO AND SONAR

Firstly ensure that 328XD MIDI Dynauto is set to ON and that the console is in READ/WRITE automation mode.

Launch Cakewalk Pro Audio or Sonar.

Open the Options | Project Options window and select the MIDI Input tab. Set Echo Mode (MIDI Thru) function to OFF when automating the 328XD.

NOTE: Echo Mode should be set to ON and the 328XD Automation Mode set to READ ONLY when recording MIDI data from remote MIDI input device such as a MIDI keyboard.

Ensure that the 328XD MIDI In port is active in the Options | MIDI Devices window.

Set a track to the 328XD MIDI Out port and click Record on Cakewalk Sonar transport control to begin recording.

Record and play back an automation pass. Refer to **Section 4 - Automation Techniques** for more information.

For further automation passes, create additional 328XD tracks within Cakewalk Pro Audio.

Digidesign Pro Tools 5

The 328XD console is capable of the following functions when used in conjunction with Pro Tools.

- Full recording and editing of 328XD dynamic automation data across multiple tracks
- Control of the Pro Tools mixer from the 328XD MIDI Controller bank
- Transport control and timecode display
- Control of compatible TDM Plugin parameters from the 328XD MIDI Controller bank
- Control of all five Aux sends in a TDM system from the 328XD MIDI Controller bank

For the configurations below, it is assumed that you have a working knowledge of Pro Tools, OMS, and the Macintosh.

Automating the 328XD with Pro Tools

Verify that 328XD MIDI Dynauto is set to ON and that the console is in READ/WRITE automation mode. Also make sure that MIDI In and Out connections are made between the 328XD and a MIDI interface.

Launch OMS and create two 'New' devices. For the first device select "Soundcraft - 328XD" and set parameters as follows:

Is Controller	Transmits MTC
Is Multitimbral	Receives MMC
Transmit Channels 1-16	Transmits MMC
Receive Channels 1-16	Device ID 1
Receives MTC	

Name the second device "Unused 328XD" and select the same properties as above. You will need to create this unused device even if you do not have a second 328XD. For more details, download the Pro Tools setup guide from our website.

Save this OMS setup and exit OMS.

Launch Pro Tools.

Disable MIDI Patch Thru under the MIDI menu. Otherwise MIDI feedback will result, preventing smooth fader movement.

Enable the 328XD as a valid Input Device under the MIDI Menu within Pro Tools.

In the Edit window in Pro Tools, create a new MIDI track and set its output to 'Digital 328XD-1'. Click on Record in the transport control to begin recording.

Record and play back an automation pass. Refer to **Section 4 - Automation Techniques** for more information. Also, refer to the **328XD Automation Specification** to match automation parameters to the correct MIDI channels.

For further automation passes, create additional 328XD tracks within Pro Tools.

CONTROLLING PRO TOOLS FROM THE 328XD

Set the 328XD MIDI Controllers as follows (see **Section 3J Part 5.3**)

Controller Number	328XD Controller	MIDI Channel	Continuous Controller ID
1	Fader 1	15	1
2	Fader 2	15	2
...	...	...	...
8	Fader 8	15	8
9	Fader 9	16	1
10	Fader 10	16	2
...	...	...	...
16	Fader 16	16	8
17	Encoder 1	15	9
18	Encoder 2	15	10
...	...	...	...
24	Encoder 8	15	16
25	Encoder 9	16	9
26	Encoder 10	16	10
...	...	...	...
32	Encoder 16	16	16

Next, in Pro Tools, go to the Setups | Peripherals | MIDI Controllers Menu. Select 'PC-1600' for the first two MIDI Controller personalities.

On the first personality, enable control from the 328XD, channel 15. Send the output to 328XD channel 15.

On the second, enable control from the 328XD, channel 16. Send the output to the 'Unused 328XD' device.

When you are finished, exit this menu - control is now enabled.

If you experience trouble, check your connections and retry. Refer to the Soundcraft/Pro Tools Setup Guide on our website for more detailed setup information.

FADER BANK SHIFTING, PLUG-IN AND AUX SEND CONTROL

NOTE: Only TDM systems can take advantage of Plug-in and Aux send control

On the 328XD under Tape Machine Setup, choose 'Custom Machine' and set it as follows:

Timecode src:	MTC
Status:	Client
MIDI:	Note On
Play:	E -2
Stop:	Eb -2
Record:	F -2
Rewind:	C -1
FF:	C# -1
Locate 1:	PTL+
Locate 2:	PTL -
Shift Key:	OFF
MIDI Channel:	15
Frame Rate:	30

With these settings, pressing LOC1 moves forward between Fader & Pan control, Plug-in control, Fader and Aux 1 send, Fader and Aux 2 send, Fader and Aux 3 send, Fader and Aux 4 send, Fader and Aux 5 send, and back again. LOC2 moves backwards between these settings.

Rewind and Fast Forward buttons become 'bank shift' controls. Pressing Fast Forward on the 328XD moves channel banks to the right 16 at a time. Rewind moves them to the left 16 at a time.

NOTE: Play, Record and Stop Commands only work while Plug-In control is activated. Using the MMC panel on the 328XD in 'Note On' mode disables MMC transmission from the 328XD, but timecode display will still be active. Refer to our Setup Guide for Pro Tools for more information.

This MIDI Controller Preset provides one-way communication for most controls in Pro Tools. If you wish to alter which channels are controlled, you must have a working knowledge of the Pro Tools environment.

NOTE: Take care when using MIDI Controllers or 328XD automation with synthesizers or other MIDI equipment, as MIDI Controllers routed to these objects may cause unwanted effects. It is a safe practice to leave MIDI Dynauto OFF and keep MIDI objects out of Record until they are needed.

CONTROLLING PRO TOOLS TRANSPORT CONTROLS FROM THE 328XD

Due to the nature of Transport Control Settings and Pro Tools, please refer to the Pro Tools Setup Guide for a detailed explanation. Download it from the Soundcraft website.

TRANSMITTING MIDI TIMECODE TO THE 328XD

Ensure that the 328XD is set to respond to incoming MIDI Timecode (see **Section 3J Part 5.13**).

Under the Session Setup Window in Pro Tools, check 'MTC To Port' and select the 328XD as the device. MIDI Time Code will now be routed to the 328XD.

Soundscape Console Manager 1.3

The 328XD console can be used as a remote control surface for Soundscape Console Manager for Soundscape SSHDR, R.Ed and Mixtreme software packages.

Console Manager 1.3 allows the system to be set up in one of 2 ways:

- ☐ 'Open Loop', in which the 328XD MIDI Controller bank controls the first 16 Faders and Pan controls within the Soundscape mixer
- ☐ 'Closed Loop' in which the 328XD both controls and is controlled by the 16 Faders, Pan controls, Solo and Mute switches within the Soundscape mixer

For the configurations below, it is assumed that you have a working knowledge of the Soundscape editing software and Console Manager.

CONFIGURING CONSOLE MANAGER / SOUNDSCAPE EDITING SOFTWARE

Open Console Manager and add a MIDI Device. Select the MIDI Input and Output ports to which the 328XD is connected. name the Device appropriately.

Select the required Console Interface from the list of possible interfaces:

Soundcraft 328XD Closed Loop Interface
Soundcraft 328XD Open Loop Interface

For the selected interface, set the MIDI Device, as configured above.

Check the box next to the installed interface. The MIDI Device should activate.

Start the Soundscape SSHDR, R.Ed or Mixtreme Software.

Within the SSHDR and R.Ed software packages, select

Settings | Preferences | Connect to Console Manager.

Within the Mixtreme software package, select

Settings | Connect to Console Manager.

CONFIGURING THE 328XD FOR THE OPEN LOOP INTERFACE

Set the 328XD MIDI Controllers as follows (see **Section 3J Part 5.3**):

Controller Number	328XD Controller	MIDI Channel	Continuous Controller ID
1	Fader 1	1	7
2	Fader 2	2	7
...	...	...	...
16	Fader 16	16	7
17	Encoder 1	1	10
18	Encoder 2	2	10
...	...	...	...
32	Encoder 16	16	10

When using the 328XD Open Loop Interface, the faders and pan pots of the Soundscape mixer will appear red until the 328XD fader/encoder passes through the value to which they are set. Once the 328XD MIDI fader/encoder has passed through this value, the Console Manager object will follow the 328XD control. If a Console manager object is then moved with the mouse, the object will appear red again until the 328XD controller passes through the new value. This prevents the controls within the Soundscape from jumping to new values.

CONFIGURING THE 328XD FOR THE CLOSED LOOP INTERFACE

Set the 328XD MIDI Controllers as follows (see **Section 3J Part 5.3**):

Controller Number	328XD Controller	MIDI Channel	Continuous Controller ID
1	Fader 1	1	7
2	Fader 2	2	7
...	...	...	...
16	Fader 16	16	7
17	Encoder 1	1	10
18	Encoder 2	2	10
...	...	...	...
32	Encoder 16	16	10
33	Solo 1	1	16
34	Solo 2	2	16
...	...	...	...
48	Solo 16	16	16
49	Mute 1	1	17
50	Mute 2	2	17
...	...	...	...
64	Mute 16	16	17

Note that to enable the Closed Loop Interface, the 328XD Automation Mode must be set to Controllers. Enter the Automation Setup menu, set MIDI Dynauto to ON and set the mode to Controllers (see **Section 3J Part 5.16**).

When using the 328XD Closed Loop Interface, the communication is bi-directional. Moving a 328XD controller will control the corresponding Soundscape Mixer object and vice versa.