XTA DPA and MC2 Delta Introduction
XTA DPA and Delta series units will listen to OSC commands via the ethernet UDP protocol.
To use OSC commands on your XTA DPA or Delta DSP use the amplifier front panel to enable the OSC option in the `Interface` menu.
When this interface is enabled you will be prompted to configure the following:-

Rx Port   =   8000 (the listen / receive port)
Tx Port   =   9000 (the talk / transmit port)
ip address =   this is the ip address of the iOS/Android/ control device.
                  Eg your phone or tablet or computers ip address

Important note – when implementing OSC control it is worth considering using either fixed IP addressing on your network or long lease times on your DHCP server.
If you opt for DHCP addressing you may need to adjust the IP address setting in your app and amplifier frequently.

As the amplifier listens to port 8000 (unless you change it in the menu above) you should configure the outgoing port on your control app or console to 8000.

OSC can control the following :-
Memory Recall (all types)
Individual Mute   Pattern Mutes
Absolute Gains   Incremental Gains
Absolute Delays   Incremental Delays

When using the Hexler `TouchOSC' application to run a control panel on a target device the following setting should be enabled you will need to configure

Host (IP Address) – IP Address of the unit you wish to control
Port (outgoing)-   (eg 8000) the listen port of your MC2/XTA unit
Port(incoming) -   (eg 9000)the transmit port of you MC2/XTA unit

Enable `**CoreMIDI'**
In the **options menu** enable `**Bundle Messages'**.

Associated with this document are some example Touch OSC templates which can be modified to suit your application, they use the commands which are detailed in the following pages.

Command Detail

<u>IMPORTANT</u> : A,B,C,D is case sensitive – must be in caps

Individual Mutes:
Input Channel
Command =   /input/*/mute
Where * = channel A, B, C or D
values [int] (0 or 1), [float] (0.0 or 1.0)
1 – Mute active.

Output Channels
Command =   /output/amp/*/mute
Command =   /output/aux/*/mute
Where * = output 1, 2, 3 or 4
values [int] (0 or 1), [float] (0.0 or 1.0)
1 – Mute active.

Absolute Gains:
Input Channels
Command =   /input/*/gainabs
Where * = input channel A, B, C or D)
values [int] (-400 to +60), [float] (-40.0 to +6.0)
Note Int steps are 10ths of dB.

Output Channels
Command =   /output/amp/*/gainabs
Command =   /output/aux/*/gainabs
Where * = output / aux channel 1, 2, 3 or 4
values [int] (-400 to +150), [float] (-40.0 to +15.0)
Note Int steps are 10ths of dB.

Absolute Delays:
Input Channels
Command =   /input/*/delayabs
Where * = input channel A, B, C or D
values [float] (0.0 to 650.0) mS.

Output Channels
Command =   /output/amp/*/delayabs
Command =   /output/aux/*/delayabs
Where * = output / aux channel 1, 2, 3 or 4
values [float] (0.0 to 650.0) mS.

Relative Gains:

Input Channels
Command =　　　　　/input/*/gainrel
Where * = input channel A, B, C or D
values [int] (-200 to +200), [float] (-20.0 to +20.0)
Note Int steps are 10ths of dB.

Output Channels
Command =　　　　　/output/amp/*/gainrel
Command =　　　　　/output/aux/*/gainrel
Where * = output / aux channel 1, 2, 3 or 4
values [int] (-200 to +200), [float] (-20.0 to +20.0)
Note Int steps are 10ths of dB.

Relative Delays:

Input Channels
Command　=　　　　/input/*/delayrel
Where * = input channel A, B, C or D
values [float] (-100.0 to +100.0) mS.

Output Channels
Command =　　　　　/output/amp/*/delayrel
Command =　　　　　/output/aux/*/delayrel
Where * = output / aux channel 1, 2, 3 or 4
values [float] (-100.0 to +100.0) mS.

Pattern Mutes:

Input Channels
Command =　　　　　/input/mutepattern
values [int] (-15 to +15), [float] (-15.0 to +15.0)
Note: Binary weighted channels A = 1, B = 2, C = 4 and D = 8
Negative values = Mute, Positive = Unmute.

Output Channels
Command =　　　　　/output/mutepattern
values [int] (-255 to +255), [float] (-255.0 to +225.0)
Note: Binary weighted channels Amp 1 = 1, Amp 2 = 2, Amp 4 = 4 etc.
Aux 1 = 16, Aux 2 = 32 etc.
Negative values = Mute, Positive = Unmute.

Memory Recalls:

Recall Input Memories, Command =   /recallmem/input
Recall Source Memories, Command =   /recallmem/sources
Recall Output Memories to Amp Command =   /recallmem/amp
Recall Output Memories to Aux Command =   /recallmem/aux
Recall Everything Memories Command =   /recallmem/all
values [int] (1 to max memory), [float] (1.0 to max memory).

Refresh Commands:

Updates the osc control with product current state
Refresh Mute, Command =   /refresh/item/mutes
Refresh Mute, Command =   /refresh/item/gains
Refresh Mute, Command =   /refresh/item/delays
Refresh Mute, Command =   /refresh/pattern

Note for /refresh/pattern multiple parameter can be refreshed defined by the `value'
Values [int] 1 to 7, [float] 1.0 to 7.0
1 for Mutes, 2 for Gains, 4 for Delays
For Example : refreshing gains & mute [float] value = 3
Troubleshooting note – a refresh command *Updates settings on the control panel with the current ones*. The unit sends the reply to a refresh command from the units transmit port to the ip address configured in the OSC menu.
If the refresh command does not work check these settings.
Unit = eg XTA DPA or Delta DSP

Revisions

Pre release 27/01/2021

Version 1.0 10/2/2021   Refresh command info updated

End of Document