

# Yorkville Sound

# TX Digital Signal Processor Settings

Processor Model	DLMS4080
Speaker Models	TX4/TX9S
Revision Date	10/20/10

Processor file name: **TX4\_TX9S\_a1**

*Program only for use with Audiopro power amplifiers or power amplifiers with the same gain*

### Conditions For Use

Set-up for 2 TX4 and 2 TX9S cabinets

### Audiopro Power Amplifier Configuration:

SUBs: 1 per amplifier channel, amp in 2 channel mode.

LOs: 1 per amplifier channel, amp in 2 channel mode.

HiIs: 1 per amplifier channel, amp in 2 channel mode.

Set all power amplifier gains to maximum.

Enable the amplifier limiter on the LO and HI amplifiers.  
Disable the limiter on the SUB amplifier.

**Please do not substitute another model of amplifier or the processor output channel limiter and gain values will be incorrect and may damage the loudspeaker drivers.**

To substitute a power amplifier the processor output channel gain, and limiter threshold must change.

**Do not** Y-cord sum 2 outputs of your processor into one amplifier. The result may damage the loudspeaker drivers

The DLMS4080 output channel limiters are present to protect the loudspeaker drivers.

The DLMS4080 input channel limiters should be set-up as the performance limiters.

### Digital Processor Output Channel Settings

Bi-Amp With Sub	TX4	
Power Amplifier	Audiopro AP4040	Audiopro AP4040
Amplifier Gain	36dB	36dB
<b>Output</b>	<b>LO</b>	<b>HI</b>
Output Gain	Minus 4.0 dB	Minus 9.5 dB
<b>Delay and Polarity</b>		
Output Delay	0.093ms	0.0 ms
Polarity	Normal	Normal
<b>Crossover</b>		
Output Low Shape	Linkwitz	Linkwitz
Slope	24dB/oct	24dB/oct
Low Corner Frequency	100 Hz	1100 Hz
Output Hi Shape	Linkwitz	-
Slope	24dB/oct	-
Hi Corner Frequency	770 Hz	-
<b>EQ</b>		
Output EQ1 Type	PEQ	PEQ
Output EQ1 frequency	290 Hz	1180 Hz
Output EQ1 +/-	Minus 2.5 dB	Minus 6.0 dB
Output EQ1 Bandwidth	0.20 oct/Q=7.21	0.53 oct/Q=2.71
Output EQ2 Type	PEQ	PEQ
Output EQ2 frequency	-	3400 Hz
Output EQ2 +/-	-	Minus 10.0 dB
Output EQ2 Bandwidth	-	0.73 oct/Q=1.96
Output EQ3 Type	PEQ	PEQ
Output EQ3 frequency	-	-
Output EQ3 +/-	-	-
Output EQ3 Bandwidth	-	-
Output EQ4 Type	PEQ	PEQ
Output EQ4 frequency	-	-
Output EQ4 +/-	-	-
Output EQ4 Bandwidth	-	-
Output EQ5 Type	PEQ	PEQ
Output EQ5 frequency	-	-
Output EQ5 +/-	-	-
Output EQ5 Bandwidth	-	-
<b>Output Limiter</b>		
Threshold	Plus 4.0dBu	Minus 2.0dBu
Attack	4.0ms	0.3ms
Release	16X	16X

Crossover For Sub	TX9S
Power Amplifier	Audiopro AP6040
Amplifier Gain	38dB
<b>Output</b>	<b>SUB</b>
Output Gain	0 dB
<b>Delay and Polarity</b>	
Output Delay	0.093ms
Polarity	Normal
<b>Crossover</b>	
Output Low Shape	Linkwitz
Slope	24dB/oct
Low Corner Frequency	20 Hz
Output Hi Shape	Linkwitz
Slope	24dB/oct
Hi Corner Frequency	84 Hz
<b>EQ</b>	
Output EQ1 Type	PEQ
Output EQ1 frequency	42 Hz
Output EQ1 +/-	Plus 4.0 dB
Output EQ1 Bandwidth	0.15 oct/Q=9.62
Output EQ2 Type	-
Output EQ2 frequency	-
Output EQ2 +/-	-
Output EQ2 Bandwidth	-
Output EQ3 Type	-
Output EQ3 frequency	-
Output EQ3 +/-	-
Output EQ3 Bandwidth	-
Output EQ4 Type	-
Output EQ4 frequency	-
Output EQ4 +/-	-
Output EQ4 Bandwidth	-
Output EQ5 Type	-
Output EQ5 frequency	-
Output EQ5 +/-	-
Output EQ5 Bandwidth	-
<b>Output Limiter</b>	
Threshold	Plus 4.0dBu
Attack	6.0ms
Release	16X