

ADAM MIX LIMITS

MIX LIMITS.DOC

The mix limits are as follows: ADAM: 248, ADAM-CS: 172, ZEUS: 120. This is the number of mixes an ASIC can do, and is shared amongst the 8 ports handled by the ASIC.

This means: any port in ADAM is guaranteed to be able to listen to 31 sources ($248 / 8$); ADAM-CS: 21; ZEUS: 15.

In ADAM, if you have a PL with 31 members, and you listen to it, you will be guaranteed to hear all the talkers (if you aren't listening to anything else). If the PL has, say, 40 members, you can "borrow" mixer resources from other ports on your ASIC, if they are unused. So if 6 people on an AIO card are listening to a 40-member PL, they will hear everything, as long as the other 2 ports are using 8 or fewer mixes between them. ($6 * 40 + 8 = 248$).

If you need PLs that might cause the mix limit to be exceeded, the simple solution is to split the PL members across various AIO cards. In practice, unless you are listening to large PLs, you tend to use a small number of mixes (10 or fewer) - there is a limit to the number of distinct audio sources you can listen to, without the whole thing devolving to sheer noise.

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