
Subject: Some WC question about AES-clock-BNC distribution

Posted by [Dimitrios](#) on Tue, 24 Oct 2006 11:26:19 GMT

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Hi,

I have ordered the mytek digital clock which has 8 wc outs and one AES out.

I suppose the AES carries the wordcloc sync, right ?

Then with a AES to bnc transformer adaptor which tramnsforms the 110ohms to 75 ohms I can probably connect another device with bnc wordclock input , right ?

Now here is one nice question.

A AES/EBU distributor from Aardvark (1 to 6)which accepts one aes input and outputs to 6 would that work as clock distributor ?

To further use 110/75 transformer adptors to connect more devices ?

Regards,

Dimitrios

Subject: Re: Some WC question about AES-clock-BNC distribution

Posted by [Tom Bruhl](#) on Tue, 24 Oct 2006 14:06:56 GMT

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This is a multi-part message in MIME format.

-----=_NextPart_000_0036_01C6F754.2343B070

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

Dimitrios,

I'm not sure AES/EBU carries clock. I thought it didn't.

I may be wrong. Better check on that one.

Tom

"Dimitrios" <musurgio@otenet.gr> wrote in message = news:453df85b\$1@linux...

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I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

-----=_NextPart_000_0036_01C6F754.2343B070

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

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<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Dimitrios,</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>I'm not sure AES/EBU carries =
clock.&nbsp; I thought=20
it didn't.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>I may be wrong.&nbsp; Better check on =
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<DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>
<BLOCKQUOTE=20
style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
  <DIV>"Dimitrios" &lt;<A=20
  href=3D"mailto:musurgio@otenet.gr">musurgio@otenet.gr</A>&gt; wrote in =
message=20
  <A =
href=3D"news:453df85b$1@linux">news:453df85b$1@linux</A>...</DIV><BR>Hi,<=
BR>I=20
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to bnc=20
  transformer adaptor which transforms the 110ohms<BR>to 75 ohms I can =
probably=20
  connect another device with bnc wordclock input<BR>, right =
?<BR><BR>Now here=20
```


Subject: Re: Some WC question about AES-clock-BNC distribution
Posted by [animix](#) on Tue, 24 Oct 2006 14:24:36 GMT
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-----=_NextPart_000_00DC_01C6F745.D72B96C0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

It will work just fine. I have done this sending AES out of my Mytek = Stereo96 A/D converter to a Lucid GenX-6 with the Lucid set to = distribute the clock signal. Just make sure the Aardsync can slave to = sample rates above 48K if you intend to use them.

Deej

"Tom Bruhl" <arpeggio@comcast.net> wrote in message = news:453e1bf0@linux...

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>Transformers.

>

>A AES/EBU distributor from Aardvark (1 to 6)which accepts one aes input and

>outputs to 6 would that work as clock distributor ?

>

>

>This may work but it could be delayed from the original clock.

>

>

>Gene

>

Subject: Re: Some WC question about AES-clock-BNC distribution

Posted by [gene lennon](#) on Tue, 24 Oct 2006 14:48:25 GMT

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"Dimitrios" <musurgio@otenet.gr> wrote:

>

>Thanks DJ,

>Gene what happens if the clcock gets delayed thru the aardvaark 1x6 distributor
>?

>I mean I have read that many buy wordclock devices that support 3-4 wc outputs

>and then they use a distributor for further clcoking, isn't it the same

delaying

>factor involved ?

>Does this matter sonically ?

>Regards,

>Dimitrios

Like most complex wordclock setups, you will need to try it to know for sure.

Gene

Subject: Re: Some WC question about AES-clock-BNC distribution

Posted by [Larry Upton](#) on Tue, 24 Oct 2006 20:20:38 GMT

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Hey Gang,

I think that if someone were to try to jam "AES Sync" into a word clock input, they would fail miserably.

AES Sync (or AES Black, as it is sometimes called) is a complete AES 64 bit digital word, with preamble bits, status bits, et al, but with zeroes occupying the audio bit locations (hence the 'black' or 'silence' designation), output at the selected sample rate. It is a very good digital clock source, if your equipment has the appropriate port. The folks who originally created the format worked hard to make their system capable of self-clocking. Works well on long cabling, too, with proper cable types and proper termination.

Word clock, on the other hand, is simply a TTL-level pulse (5V p-p) at the selected sample rate. It is useful, as well, but don't get the two confused. Still needs proper termination, but not very good with long cables. "Super Clock" is a wordclock pulse at 256 times the selected sample rate. Not used too much any more, but still available, if needed. My Rosendahl has one output which can be set to this rate.

Check any of these signals with a scope - you'll see what I mean.

Canare 110<>75 transformers are wonderful things, but they don't change AES Sync into word clock, or vice-versa.

Also, clock distribution systems should not introduce sufficient delays as to be problematic, especially in a project studio or small commercial studio. Get to the radio/TV station sized facility, and then we can talk....

Happy clocking,

Larry Upton
KPBS TV/FM
San Diego

Gene Lennon wrote:

> "Dimitrios" <musurgio@otenet.gr> wrote:

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