
Subject: Re: [WTB] TED 8360 and PLA for Commodore 16/116
Posted by [Computer Nerd Kev](#) on Wed, 30 Oct 2013 07:14:29 GMT
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On 29 Oct 2013, George wrote:

> SbM says...
>
>> As regards the C16/116, I guess any good-quality
>> regulated 9VDC power supply should be OK, right?
>
> My C16 came with a pretty strange power supply setup inside.
> Of course it has a 7805 regulator to produce +5VDC from the
> +9VDC input supply. But in parallel with the regulator
> circuit there's a 20-ohm, 5-watt resistor. So part of the
> input supply goes directly from the 9V input to the output
> of the regulator. I assume the resistor is chosen so that
> by itself it produces a bit less current and voltage than
> the computer's minimum requirements, and the regulator just
> provides a small amount of additional power to keep the
> output at a regulated 5V.

Hmm... that's a cheat I haven't seen before either.

Here's the bit of the C16 schematic with the PSU in it:

<http://www.zimmers.net/anonftp/pub/cbm/schematics/computers/plus4/c16-251788-1of3-left.gif>

I'd love to find out more about this circuit. Running through it in my head, it seems full of problems. I guess it probably considers the inner workings of the 7805, perhaps I'll look more deeply into it later and work out a theory.

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