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Subject: 1200 buad modem designs wanted  
Posted by [mikec](#) on Tue, 11 Jun 2013 01:13:30 GMT  
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Message-ID:  
Date: Wed, 14-Nov-84 17:29:30 EST  
Article-I.D.: reed.701  
Posted: Wed Nov 14 17:29:30 1984  
Date-Received: Fri, 16-Nov-84 06:42:09 EST  
Organization: Tabr Sietch - Portland, Oregon  
Lines: 26

[ This line is offered as a sacrifice so that others may live... ]

I am interested in building a 1200 buad modem either from a kit or just from a design. I know of many 300 buad designs and kits, but no 1200 buad versions. This is probably because the 1200 buad modems encompass an entirely different design. Does anyone have a 1200 buad design/kit they could send me? Or even the address of some place to contact. Any info on costs and difficulties of building such a modem, would also be appreciated.

Michael Cooper

---

UUCP:

{decvax, ucbvax, pur-ee, uw-beaver, masscomp, cbosg,  
mit-ems, psu-cs, uoregon, orstcs, ihnp4, uf-cgrl}!tektronix--+

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----- teneron-----|
|      |||||      LORD      | ogcvax-----|
>      !|||      | DIMWIT      < muddcs-----|
|      |||  ---| FLATHEAD      | cadic-----+!reed!mikec
|      ||C   CC \      | oresoft-----|
>      |||   _\      < grpwre-----|
|      ||| (____| OUR      | isonvax-----|
|      ||   | EXCESSIVE      | nsc-pdc-----+
>      |____| LEADER      <
-----^-----^-----^-----^-----^-----
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Subject: Re: 1200 buad modem designs wanted  
Posted by [Andrew\[1\]\[2\]\[3\]\[4\]](#) on Tue, 11 Jun 2013 01:13:48 GMT  
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Message-ID:  
Date: Sat, 17-Nov-84 14:15:49 EST  
Article-I.D.: orca.1170  
Posted: Sat Nov 17 14:15:49 1984  
Date-Received: Mon, 19-Nov-84 03:26:16 EST  
References:  
Organization: Tektronix, Wilsonville OR  
Lines: 18

[You see this line. That's because it starts in column one.]

"I am interested in building a 1200 buad modem either from a kit or just from a design ... Any info on costs and difficulties of building such a modem, would also be appreciated."

A big difficulty is that you aren't allowed to hook the modem to the telephone network until it's been certified by the FCC. This isn't something that an individual does on a hobby project; it takes the resources of a company that's designing modems for a profit.

If you do hook up your modem without permission, and it brings down some of the network, the phone company will Own Your Soul. You're liable for the entire cost of repair, including labor, and may find yourself brought up on criminal charges.

-- Andrew Klossner (decvax!tektronix!orca!andrew)

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Subject: Re: 1200 buad modem designs wanted  
Posted by [darrelj](#) on Tue, 11 Jun 2013 01:13:49 GMT  
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Message-ID:  
Date: Mon, 19-Nov-84 00:10:07 EST  
Article-I.D.: sdcrdcf.1489  
Posted: Mon Nov 19 00:10:07 1984  
Date-Received: Tue, 20-Nov-84 03:16:59 EST  
References:  
Reply-To: darrelj@sdcrdcf.UUCP (Darrel VanBuer)  
Organization: System Development Corp. R+D, Santa Monica  
Lines: 15  
Xref: dcdwest net.micro:4096 net.wanted:3132  
Summary:

While the process for getting an approved phone line interface is indeed arduous, you can by approved "black box" line interface which meet the requirements for you. There are (1) full blown DAAs at \$100 to \$150 (2) small modules designed to be built in to modems (aimed at small manufacturers or small lots to avoid certification hassles).

This is the easy part of building a 1200 bps full duplex modem.

--

Darrel J. Van Buer, PhD  
System Development Corp.  
2500 Colorado Ave  
Santa Monica, CA 90406  
(213)820-4111 x5449  
...{allegra,burdvax,cbosgd,hplabs,ihnp4,orstcs,sdcsvox,ucla-cs,akgua}  
!sdcrdcf!darrelj  
VANBUER@USC-ECL.ARPA

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Subject: Re: 1200 buad modem designs wanted  
Posted by [yamauchi](#) on Tue, 11 Jun 2013 01:13:52 GMT  
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Message-ID:  
Date: Mon, 19-Nov-84 14:14:04 EST  
Article-I.D.: fortune.4660  
Posted: Mon Nov 19 14:14:04 1984  
Date-Received: Wed, 21-Nov-84 00:16:44 EST  
References:  
Reply-To: yamauchi@fortune.UUCP (Alan yamauchi)  
Organization: Fortune Systems, Redwood City, CA  
Lines: 31  
Summary:

In article [andrew@orca.UUCP](#) (Andrew Klossner) writes:

>  
> "I am interested in building a 1200 buad modem either from a  
> kit or just from a design ... Any info on costs and  
> difficulties of building such a modem, would also be  
> appreciated."  
>  
> A big difficulty is that you aren't allowed to hook the modem to the  
> telephone network until it's been certified by the FCC. This isn't  
> something that an individual does on a hobby project; it takes the  
> resources of a company that's designing modems for a profit.  
> .  
> .

>  
> -- Andrew Klossner (decvax!tektronix!orca!andrew)

Somebody correct me if I am wrong, but I believe you can build a direct connect modem without going thru FCC certification; however you must use an FCC certified DAA to do so. Off hand, I believe Cermetec and Novation build FCC certified DAA's, there are probably other manufacutrers also. Anyway, the DAA's are EXPENSIVE in single unit purchases, they aren't even cheap in 100,000 unit pricing. It may be cheaper and less headache to buy a modem than build your own. Good Luck!

Alan Yamauchi

UUCP: {ihnp4,ucbvax!amd,hpda,sri-unix,harpo}!fortune!yamauchi  
DDD: (415)594-2436  
USPS: Fortune Systems Corp, 101 Twin Dolphin Drive, Redwood City, CA 94065

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Subject: Re: Re: 1200 buad modem designs wanted  
Posted by [grunwald](#) on Tue, 11 Jun 2013 01:14:10 GMT  
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Message-ID:  
Date: Wed, 21-Nov-84 15:24:00 EST  
Article-I.D.: uiucdcsb.4400078  
Posted: Wed Nov 21 15:24:00 1984  
Date-Received: Sun, 25-Nov-84 03:31:20 EST  
References:  
Lines: 3  
Nf-ID: #R:fortune:-466000:uiucdcsb:4400078:000:141  
Nf-From: uiucdcsb!grunwald Nov 21 14:24:00 1984

If PLI's are around 100 to 150, how do these \$9.95 phones manage to have a be so cheap? They must have a PLI with spike cutouts, etc, right?

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Subject: Re: Re: 1200 buad modem designs wanted  
Posted by [darrelj](#) on Tue, 11 Jun 2013 01:14:17 GMT  
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Message-ID:

Date: Mon, 26-Nov-84 10:06:00 EST

Article-I.D.: sdcrcdf.1494

Posted: Mon Nov 26 10:06:00 1984

Date-Received: Wed, 28-Nov-84 02:36:54 EST

References:

Reply-To: darrelj@sdcrcdf.UUCP (Darrel VanBuer)

Organization: System Development Corp. R+D, Santa Monica

Lines: 30

Summary:

The main reasons you can buy \$10 phones but \$100 interfaces (DAAs):

1) DAAs have several relays rather than cheap molded switches

2) The phone is self-contained. As a result, max output can be done as a byproduct of design (e.g. microphone saturates below limit). Required isolation from power lines done by 1/16 inch of plastic shell, etc.

An unrestricted DAA has to deal with some fool connecting 110V AC or a 100 W audio output stage to line, and still achieve isolation (until it melts down).

3) Mass production. DAAs are a specialty item, mostly holdovers from when the phone company was paranoid or predatory about what you connect. Modems made in any quantity have it designed in as another \$10 or \$20 feature.

Darrel J. Van Buer, PhD

System Development Corp.

2500 Colorado Ave

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(213)820-4111 x5449

...{allegro,burdvax,cbosgd,hplabs,ihnp4,orstcs,sdcsvax,ucla-cs,akgua}

!sdcrcdf!darrelj

VANBUER@USC-ECL.ARP

--

Darrel J. Van Buer, PhD

System Development Corp.

2500 Colorado Ave

Santa Monica, CA 90406

(213)820-4111 x5449

...{allegro,burdvax,cbosgd,hplabs,ihnp4,orstcs,sdcsvax,ucla-cs,akgua}

!sdcrcdf!darrelj

VANBUER@USC-ECL.ARP

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Subject: Re: 1200 buad modem designs wanted

Posted by [adm](#) on Mon, 17 Jun 2013 21:14:01 GMT

Message-ID:

Date: Wed, 28-Nov-84 10:20:09 EST

Article-I.D.: cbneb.2297

Posted: Wed Nov 28 10:20:09 1984

Date-Received: Thu, 29-Nov-84 05:49:13 EST

Sender: adm@cbneb.UUCP

Organization: AT&T Bell Laboratories, Columbus, OHIO

Lines: 7

Nf-ID: #R:reed:-70100:cbnap:18000003:000:375

Nf-From: cbnap!whp Nov 28 09:48:00 1984

AT&T now makes a two chip set, called the 882A switched capacitor modem. These two chips perform all the functions of a 212A or a CCITT V.22; 300 and 1200 baud; synchronous or asynchronous. Adding a third chip allows 2400 baud. If you want to build a kit, it would be hard to find an easier one (just two chips)! (For any further info, contact your AT&T sales rep, not me)

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Subject: Re: 1200 buad modem designs wanted  
Posted by [adm](#) on Mon, 17 Jun 2013 21:14:11 GMT  
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Message-ID:

Date: Fri, 30-Nov-84 20:39:29 EST

Article-I.D.: cbneb.2434

Posted: Fri Nov 30 20:39:29 1984

Date-Received: Sun, 2-Dec-84 02:50:07 EST

Sender: adm@cbneb.UUCP

Organization: AT&T Bell Laboratories, Columbus, OHIO

Lines: 7

Nf-ID: #R:reed:-70100:cbnap:18000003:000:375

Nf-From: cbnap!whp Nov 28 09:48:00 1984

AT&T now makes a two chip set, called the 882A switched capacitor modem. These two chips perform all the functions of a 212A or a CCITT V.22; 300 and 1200 baud; synchronous or asynchronous. Adding a third chip allows 2400 baud. If you want to build a kit, it would be hard to find an easier one (just two chips)! (For any further info, contact your AT&T sales rep, not me)

Subject: Re: 1200 buad modem designs wanted  
Posted by [adm](#) on Mon, 17 Jun 2013 21:14:20 GMT  
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Message-ID:  
Date: Mon, 3-Dec-84 14:34:40 EST  
Article-I.D.: cbneb.2571  
Posted: Mon Dec 3 14:34:40 1984  
Date-Received: Tue, 4-Dec-84 19:34:07 EST  
Sender: adm@cbneb.UUCP  
Organization: AT&T Bell Laboratories, Columbus, OHIO  
Lines: 7  
Nf-ID: #R:reed:-70100:cbnap:18000003:000:375  
Nf-From: cbnap!whp Nov 28 09:48:00 1984

AT&T now makes a two chip set, called the 882A switched capacitor modem. These two chips perform all the functions of a 212A or a CCITT V.22; 300 and 1200 baud; synchronous or asynchronous. Adding a third chip allows 2400 baud. If you want to build a kit, it would be hard to find an easier one (just two chips)! (For any further info, contact your AT&T sales rep, not me)

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Subject: Re: Re: 1200 buad modem designs wanted  
Posted by [notes](#) on Mon, 16 Sep 2013 17:25:40 GMT  
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Message-ID:  
Date: Sun, 27-Jan-85 02:01:27 EST  
Article-I.D.: isucs1.273  
Posted: Sun Jan 27 02:01:27 1985  
Date-Received: Mon, 4-Feb-85 04:44:22 EST  
Sender: notes@isucs1.UUCP  
Organization: Iowa State University  
Lines: 17  
Nf-ID: #R:fortune:-466000:isucs1:9500002:000:768  
Nf-From: isucs1!drew Jan 22 18:02:00 1985

Exar also offers a 1200-baud modem chip set. They also publish an application note that gives a schematic diagram for a auto-sense 300/1200-baud modem. You could connect it to the phone line through a simple acoustic coupler (Ciarcia, in his Circuit Cellar article, "A Build-it-yourself Modem for Under \$50", shows such a setup) or a direct-connect setup.

I once priced components for such a modem (with acoustic coupler). You should

be able to build it (if you have sufficient technical knowledge and ability)  
for about \$200-\$250. You can write Exar at:

Exar Integrated Systems  
750 Palomar Avenue  
Sunnyvale CA 94088  
(408) 732-7970

Hope this will be able to help you.

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