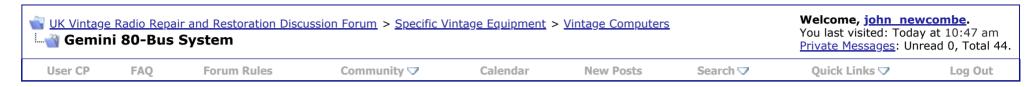
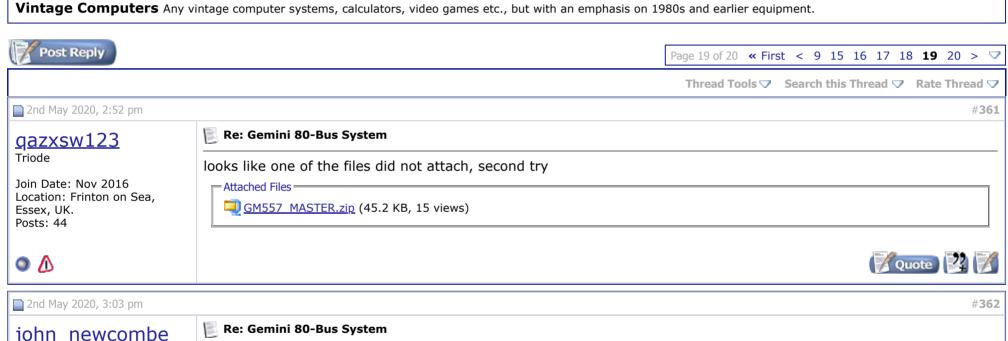
# **UK Vintage Radio Repair and Restoration**

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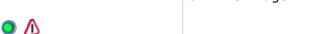
Vintage Radio Service Data Service Data DVD-ROM From £24.99 Instant Download Data Just £1.99 Each







If its OK with you I will stick this up on glassty.com with the others as it's a QDDS image and I only have bios 1.4 on a DDDS image.









Yorkshire, UK. Posts: 188

3rd May 2020, 7:17 pm

#363

### JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK.

Posts: 524

### 🖳 Re: Gemini 80-Bus System

Just for testing I downloaded it and it works fine under xbeaver with the following configuration

cpuclock

board 0xfe gm813 mmu

board 0xb0 gm832 Gemini 557 green keyboard gemini

board 0xe0 gm849 floppy -geometry 80.2.10.0.512 & ~/beaver/disks/gm557 master.img

binload 0xf000 ~/beaver/rpm-v2p1.rom

byte 0f0a8 21 00 f0 #Patch top of ram for RPM

NB - seems to need a GM849 disk controller.

PS - the command "DIR" with no arguments works fine on the simulator - it lists all files.







#364





## john newcombe

Pentode

Join Date: Apr 2019 Location: Skipton, North

Yorkshire, UK. Posts: 188

### Re: Gemini 80-Bus System

#### Quote:

Originally Posted by **JohnBHanson** 

Just for testing I downloaded it and it works fine under xbeaver with the following configuration

cpuclock

board 0xfe gm813 mmu

board 0xb0 qm832 Gemini 557 green keyboard gemini

board 0xe0 gm849 floppy -geometry 80.2.10.0.512 & ~/beaver/disks/gm557 master.img

binload 0xf000 ~/beaver/rpm-v2p1.rom

byte 0f0a8 21 00 f0 #Patch top of ram for RPM

NB - seems to need a GM849 disk controller.

PS - the command "DIR" with no arguments works fine on the simulator - it lists all files.

Now that you mention it I vaguely remember reading in one of the 80 Bus News magazines that bios 3.5 needed an 849. I can't remember why though.













3rd May 2020, 9:57 pm

#365

### JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

Posts: 524



#### Re: Gemini 80-Bus System

Note to those planning to use the configuration - miss the & out of the board line. When I typed it was displayed as two lines and hence the & at the end of the line which indicates a continuation line was needed. However it is now displayed as one line and so the & is not required.

Sorry autoformat causing confusion.









4th Jun 2020, 3:52 pm

#366

### Mixtel0 Diode



Join Date: Jul 2011

Location: Preston, Lancashire,

UK. Posts: 8





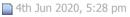
#### Re: Gemini 80-Bus System

If anyone is interested, I'm currently compiling a "Definitive list" of all the 80-BUS hardware in the Gxxx series on my nascom, info site. It's not that far off complete, but if anyone can help with filling in the gaps it would be nice. 😐









#367

### AdrianH

Hexode

Join Date: Mar 2020 Location: Blackburn with Darwen, Lancashire, UK.

Posts: 336

#### Re: Gemini 80-Bus System

Just catching up on this thread. I have a Chinese Eprom programmer that can be borrowed if required a Genius G540 that I ran under XP connects via a USB lead to the PC, I am sure it would do 2716 and 2732 type Eproms and bigger. I will have to check if it will still run under Win10?

Let me know if interested.

Adrian

Ask questions and learn, or try to!











#368



### Mixtel0 Diode



Join Date: Jul 2011

Location: Preston, Lancashire,

UK. Posts: 8



### Re: Gemini 80-Bus System

I've just got (but not tested) a couple of AT28C16 EEPROMs. If they work as expected they should make an interesting alternative to 2716 EPROMs as they should be able to be programmed "in situ" by pulling /WR low with a "write protect" switch and repeatedly writing/reading each byte until it reads correctly.







1 4th Aug 2020, 10:14 pm

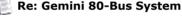
#369

### john newcombe

Pentode

Join Date: Apr 2019 Location: Skipton, North

Yorkshire, UK. Posts: 188



#### JBH:

Hi John, I have finally got round to trying the last Master disk that was posted on the thread and I started by downloading the latest XBeaver. I am having all sorts of difficulties in compiling this against Arch Linux. I know we created an Arch Makefile but this is now out of date with the source files (window.c for example). I am wondering, therefore, what version of Linux you are using and what window manager. I will then replicate the environment here and hopefully it will just build going forward.











5th Aug 2020, 12:17 am

#370

## JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK. Posts: 524



### Re: Gemini 80-Bus System

I have renamed textwin.c to textwin X.c and also created textwin SDL.c and textwin SDL2.c to allow builds against X and also SDL and SDL2 if they are installed.

Other details in PM.









■ 18th Sep 2020, 10:51 pm

#371

### iohn newcombe

Pentode

Join Date: Apr 2019 Location: Skipton, North Yorkshire, UK.

Posts: 188

#### Re: Gemini 80-Bus System

I have finally sorted out the compilation issues I had and have now tried the disk image and config files with the latest xbeaver, however, I get the following results repeated over and over. Any thoughts?

#### Code:

WHAT?

88888888

WHAT?

88888888 WHAT?

88888888











■ 18th Sep 2020, 11:08 pm

### JohnBHanson

Heptode

Join Date: Aug 2009

Location: Worthing, Sussex,

UK.

Posts: 524

### Re: Gemini 80-Bus System

What config file are you running?

Also if you are running rpm has the serial port been configured and if you are using a physical port does the xbeaver program have access to it.

make sure line in config starting board 0xb8 serial 8250 ....

make sure you have a floppy controller specified board 0xe0 gm829 floppy ....

Looks like rpm is trying to read from a non-existant serial port

Last edited by JohnBHanson; 18th Sep 2020 at 11:17 pm.











### john newcombe

Pentode

Join Date: Apr 2019 Location: Skipton, North

Yorkshire, UK. Posts: 188



### Re: Gemini 80-Bus System

I was just using the config from your post 363, although I have selected RP/M 2.3 rather than 2.1. I will investigate further, thanks for your help.







#374

### Yesterday, 10:00 am

john newcombe

Pentode

Join Date: Apr 2019 Location: Skipton, North

Yorkshire, UK. Posts: 188



Quote:

Originally Posted by **john\_newcombe D** 

I was just using the config from your post 363, although I have selected RP/M 2.3 rather than 2.1. I will investigate further, thanks for your help.

Serial port now added and I get to the RP/M monitor, however, RP/M reports the disk posted in post 361 as Bad Disk. Perhaps I have misunderstood what it was that you got working with xbeaver in post 363.











#375

### Yesterday, 10:59 am

JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK. Posts: 524



### Re: Gemini 80-Bus System

Remember using -v one or more times on the command line gives more tracing (Including disk I/O).

This maybe helpful







#376

### Yesterday, 12:51 pm

JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK. Posts: 524

### Re: Gemini 80-Bus System

I have downloaded the img file and checked with mine and they compare.

Using the following gem557.cfg

cpuclock 4 board 0xfe gm813 mmu board 0xb0 qm832 Gemini\_557 green keyboard gemini board 0xe0 gm849 floppy -geometry 80.2.10.0.512 ~/beaver/disks/gm557 master.img binload 0xf000 ~/beaver/rpm-v2p3.rom byte 0f0a8 21 00 f0 #Patch top of ram for RPM

xbeaver gem557.cfg

boots ok

- Attached Thumbnails -













#377



JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK. Posts: 524

#### Re: Gemini 80-Bus System

Shortly after reset RPM tries to boot the floppy. If this fails it issues its prompt and then looks for input. This check for input includes the serial port.

If the boot suceeds cpm performs the io which does not include checking the serial port for input.

As to the BAD DISK the clue is in the FAIIL - looks like xbeaver cannot read the floppy image file.

I hope that helps.











#378

Yesterday, 10:04 pm

Re: Gemini 80-Bus System

Pentode





Join Date: Apr 2019 Location: Skipton, North

Yorkshire, UK. Posts: 188

I have it, I the file had the extension in lower case and the config did not the -vv option pointed me in the right direction. Many thanks, really appreciated.

What I am hoping is that this image can be used in the Gotek with the MFB hardware to boot the machine (not with MFB bios obviously). Once I have it booting I can start investigating the other issues, e.g. testing the Xebec calls and creating real boot disks.









#379



Yesterday, 10:45 pm

### JohnBHanson

Heptode

Join Date: Aug 2009 Location: Worthing, Sussex,

UK. Posts: 524



#### Re: Gemini 80-Bus System

I enclose the winchester formatter - which maybe helpful.

Note that the GM849 electronically inverts the data before presenting it to the zebec controller. This is compensated for by the gemini bios also inverting the data leaving data on the correct sense on the hard disk.

The xbeaver bios does not invert the data but uses the repeat io instructions of the z80 to send the data quickly. This leads to much quicker io but the data stored on the hard disks is inverted with respect to a gemini system.

Also there is a sector size jumper on the zebec controller and this needs to be set correctly.

Note files are in gemzap format. (xbeaver Needs gemini keyboard option to run - this can be changed dynamically by pressing and holding the left control key and then press and release the right control key and finally release the left control key. (wordstar keyboard selected by swapping left/right in the above procedure).

- Attached Files -

winch.zip (2.5 KB, 1 views)











#380



### john newcombe

Pentode

Join Date: Apr 2019



### Re: Gemini 80-Bus System

Thanks, John. I will take a look.

Location: Skipton, North Yorkshire, UK. Posts: 188

A quick update re Gotek....

I have now booted my rack system (G11, IVC and 829) using the image on a Gotek. I can issue DIR and receive the correct results. When I try and launch MBASIC I get a Drive Not Ready error. If I retry (or abort and re-issue the MBASIC command) it works and MBASIC works as expected. I will retry with the MFB 849 board in the same rack.















« Previous Thread | Next Thread »

All times are GMT +1. The time now is 4:56 pm.

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