

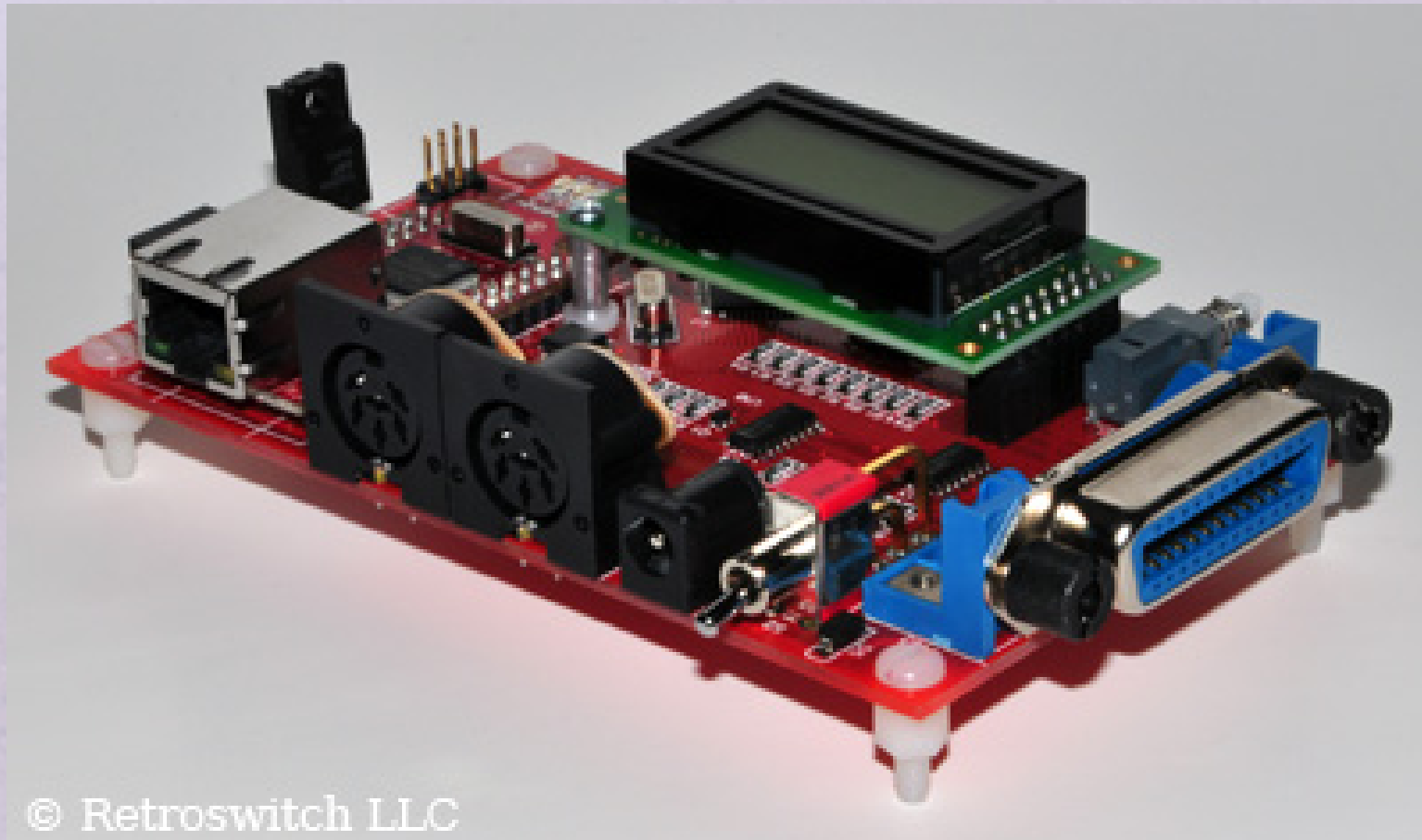
The Commodore Flyer

ShadowM
ECCC 2012



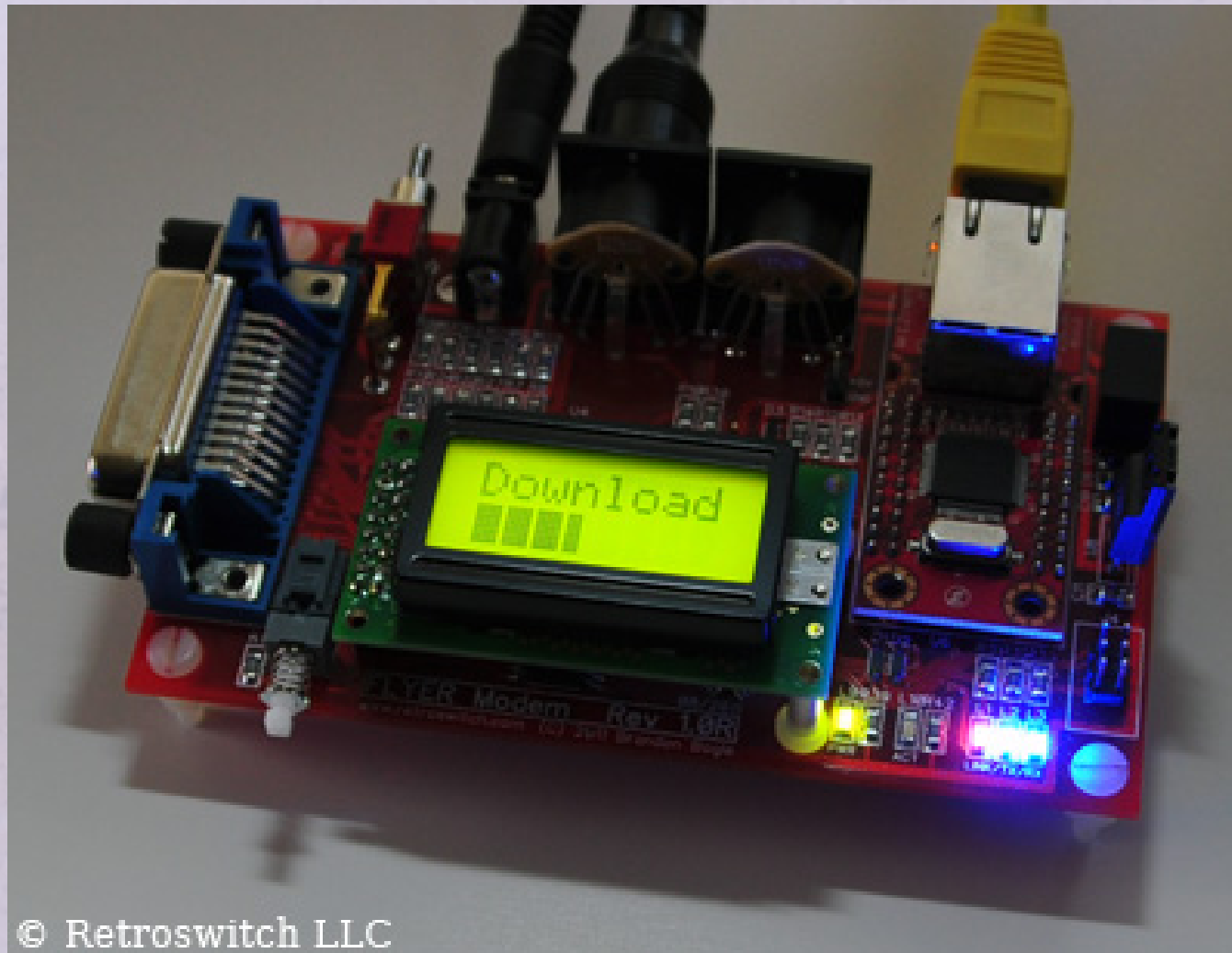
- The Flyer is an IEC (serial port) device for connecting to the internet. Neither the cartridge port nor the user port are used.
- It also has an IEEE-488 connector.
- Detailed user's guide available (28 pages).
- Cloud storage accessed via device #7; can also be used for writing network programs.
- ~3.5M of flash is also provided as a “scratch area” for temporary storage; defaults to device #10, but can be changed with a button press.

the Flyer



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the Flyer (connected)



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PET with Flyer on IRC



front panel switch

Front button is used to select:

- disk image selected for flash drive
- device number for flash drive
- currently selected cloud server

More functions available by addressing device #7 on the command channel, e.g.

```
OPEN15,7,15"DISK-ADD:D64,mY gR00VY dISK"
```

configuring network settings

```
10OPEN15,7,15
```

```
20PRINT#15,"CONFIG:IP=192.168.1.203"
```

```
30PRINT#15,"CONFIG:SU=255.255.255.0"
```

```
40PRINT#15,"CONFIG:GA=192.168.1.99"
```

```
50PRINT#15,"CONFIG:DN=192.168.1.99"
```

```
60CLOSE15
```

(note: DHCP also supported)

configuration from the flash drive

- The flash drive also presents a second unit like the older Commodore drives, containing utility programs.

```
LOAD"$1",10
```

```
LOAD"1:CONFIG",10
```


firmware updates online

- list available firmware revisions:

```
LOAD "$^", 7
```

- list revisions w/release notes:

```
LOAD "$^:*", V, 7
```

- upgrade to current firmware version:

```
LOAD "^:*", 7
```

firmware listing

```
jiffydos v6.01 (c)1989 cmd
c-64 basic v2      38911 basic bytes free
ready.
load"$↑",7
searching for $↑
loading
ready.
list
0  firmware releases
1  "1.1.1"          2011-11-12
2  "1.1.2"          2011-11-18
3  "1.1.3"          2011-12-03
4  "1.1.4"          2011-12-15
5  "1.1.5"          2012-01-10
6  "1.1.6"          2012-02-11
7  "1.1.7"          2012-03-11
8  "1.1.8"          2012-05-17
9  "1.1.9"          2012-09-05
ready.
```


firmware listing with changelog

```
0  firmware releases
1  "1.1.1"      2011-11-12
1  -initial release
2  "1.1.2"      2011-11-18
2  -disk image fixes
2  -reenabled dos copy, rename
3  "1.1.3"      2011-12-03
3  -30% faster net transfers
3  -new disk manager utility
4  "1.1.4"      2011-12-15
4  -secondary drive wildcards
4  -d80/d82 support
4  -easyprog timing fix
4  -bug fixes
5  "1.1.5"      2012-01-10
5  -jiffydos support
5  -display scrolling for disk and cloud
5  names
5  -n-a now works with http channels
5  -disk directory padding fixes
5  -relaxed some dos checks (fixed cbm c
5  mdr compat issues)
5  -dos cmd status now shows flyer ident
   on startup and init
```

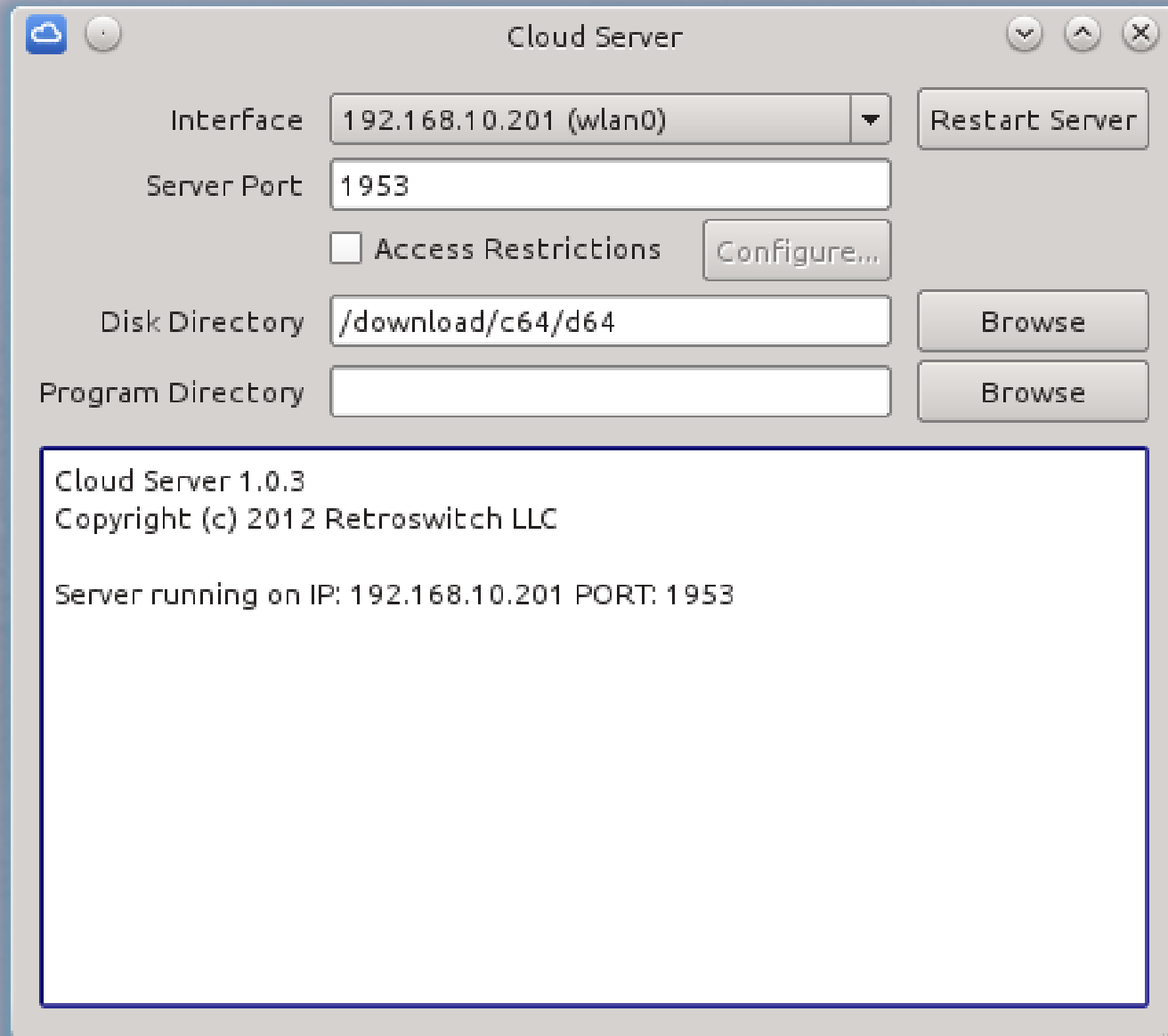
cloud storage

- Flyer is meant to store disk images and programs "in the cloud".
- commodoreonline.com is the default cloud server (requires creating free account).
- You can also easily run your own cloud server and access the collection you've amassed on your PC.
- Up to four different cloud servers can be selected with the button on the Flyer; default can be changed with a command.

configuring your own cloud server

```
10OPEN15,7,15
20PRINT#15,"CONFIG:CLDNAM2=ORAC"
30PRINT#15,"CONFIG:CLDSRV2=192.168.10.201"
40PRINT#15,"CONFIG:CLDPRT2=1953"
50PRINT#15,"CONFIG:CLDUSR2=SHADOWM"
60PRINT#15,"CONFIG:CLDPWD2=WIZARD"
70CLOSE15
```

cloud server (Linux version)



The screenshot shows a window titled "Cloud Server" with a cloud icon in the top-left corner and standard window controls in the top-right. The interface includes several configuration fields and buttons:

- Interface:** A dropdown menu showing "192.168.10.201 (wlan0)".
- Server Port:** A text input field containing "1953".
- Access Restrictions:** A checkbox that is currently unchecked, followed by a "Configure..." button.
- Disk Directory:** A text input field containing "/download/c64/d64", with a "Browse" button to its right.
- Program Directory:** An empty text input field, with a "Browse" button to its right.
- Restart Server:** A button located to the right of the Interface dropdown.

At the bottom of the window is a large text area with a blue border containing the following text:

```
Cloud Server 1.0.3  
Copyright (c) 2012 Retroswitch LLC  
  
Server running on IP: 192.168.10.201 PORT: 1953
```


- directory of flash drive:

```
LOAD "$$", 7
```

- directory of current cloud server:

```
LOAD "$", 7
```

- upload disk to cloud server image:

```
SAVE "DISK:NAME", 7
```

loading programs from the cloud

- load program from specified site:

```
LOAD"HTTP:RETROSWITCH.COM/FILES/IRC64.PRG",7
```

- load program from default cloud server:

```
LOAD"PROGRAM NAME",7
```

- upload disk to cloud server image:

```
SAVE"DISK:NAME",7
```


commodoreONLINE

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commodoreONLINE

ABOUT

who we are

MY ACCOUNT

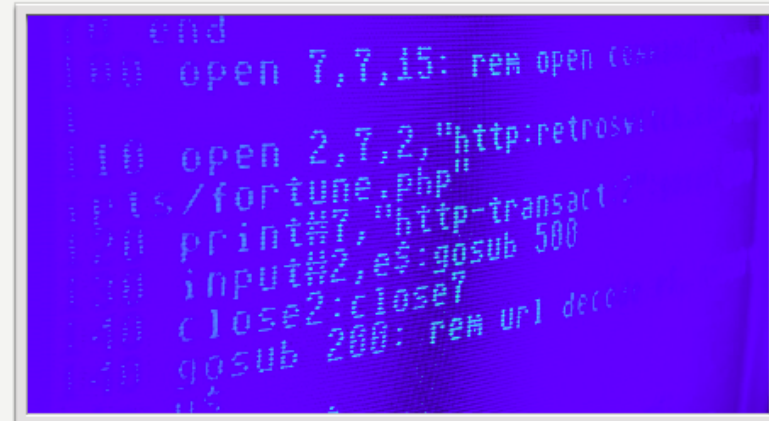
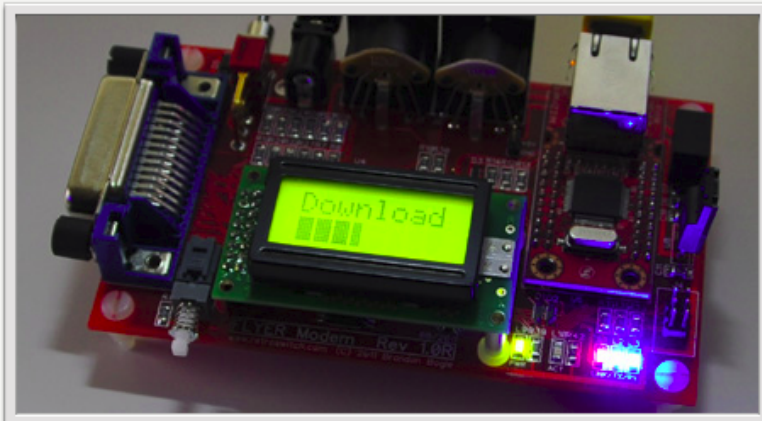
library & profile

COMMUNITY

share & connect

CONTACT

questions? comments?



[Commodore Online](#) is a free web based service for uploading all your favorite Commodore disk images (D64, D71, D80, D81 & D82) and supports content distribution for the following Commodore 8-Bit computers:

- Commodore CBM PET
- Commodore VIC-20
- Commodore Plus/4
- Commodore 16
- Commodore 64 (C64)
- Commodore SX-64 / Executive 64
- Commodore 128 (C128)
- Commodore 128D and DCR

This is made possible by [Flyer, a Commodore compatible high speed internet modem and disk drive emulator](#). Once you have your disk images uploaded to the "Commodore Online" website, you can view and edit their contents from your web browser or directly via your Commodore computer. You can even download disk images directly to your [Flyer internet device](#) at broadband speed and access them as if you were using a real Commodore disk drive.

commodoreONLINE - disk display

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Turbo Macro Pro



Last Modified: 06/15/12 - 7:11am

Tags: [Utility](#), [C64](#)

Shared with: [Nobody](#)



Flyer Apps



Last Modified: 06/15/12 - 7:11am

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OUR MISSION

Commodore Online provides an easy to use solution for storing and retrieving disks (D64, D71, D80, D81 and D82) and programs over the internet from your Commodore computer and will always provide these basic services for free, although documentation and source code will be made available on [retroswitch.com](#) to enable anyone to integrate these same capabilities into their own websites!

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commodoreONLINE - sector display

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Directory View

Sector View

Sector Dump

```
0e12d0f4 a906a8a6 ba20baff 18a2d4a0 .....  
b2ad2ab3 690420bd ff20c0ff 2068bcad ..*.i. . . . h..  
01cb8d04 b3ad02cb 8d05b3a9 298d01cb .....)  
a9028d02 cbcefd2 60adffb2 f005a207 .....  
4cf9bece feb26020 adc2ad32 b38dfab2 L.....`...2...  
ad33b38d fbb26020 c0b8aa20 c0b820b6 .3.....`...  
b8cad0f7 6020c0b8 aa20c0b8 20b6b8ca .....  
d0f7a900 4cb6b820 c0b8aaca f00920c0 ....L.....  
b820b6b8 cad0f720 c0b80980 20b6b860 .....  
20adc2ad 33b3d00c ad32b320 b6b820db ...3....2. . . .  
b84c08c2 2c1fb330 f2a2034c fcbe20ad .L.,..0...L. . .  
c2ad32b3 20b6b8ad 33b320b6 b820dbb8 ..2. ...3. . . .  
4c26c220 adc238ad 32b3e901 0820b6b8 L&. ..8.2....  
28ad33b3 e90020b6 b820dbb8 4c3bc2ad (.3... ..L;..  
39b3f00c 2037c1ad 32b3ae33 b34ca2be 9... 7..2..3.L..  
602099be 20c3c2ad 39b3d029 ad07b3f0 `.. ...9..)....
```

Close

Disk Management

[Format](#)

[Validate](#)

File Management

[Upload File](#)

Instructions

Click on any block to see a hex dump of the sector contents.

☐ Indicates an unallocated block.

■ (Multiple Colors) Indicates a block that belongs to a file chain.

▨ Indicates an unallocated BAM/directory block.

▨ Indicates an allocated BAM/directory block.

⦿ Indicates an allocated block that is NOT part of any file chain.

network programming

- The Flyer also exposes APIs to use its WIZnet board for network programming.
- HTTP connections can be made with both URL parameters and POST parameters, and a data payload can be sent as well.
- Connections can also be made to arbitrary ports for send and receive.

HTTP request parameters (URL and POST)

```
list
10 open15,7,15
20 open2,7,2,"http:192.168.10.201/eccc/e
ccc?a=add"
30 print#15,"http-post:2,one=first"
40 print#15,"http-post:2,two=second"
50 print#15,"http-post:2,three=third"
60 print#15,"http-transact:2"
70 ef=0:rs$=""
80 get#2,r$:if st and 64 then ef=1
90 rs$=rs$+r$
100 if ef=0 then 80
110 print rs$
999 close2:close15:end
ready.
run
A: "ADD"
ONE: "first"
TWO: "second"
THREE: "third"

ready.
```

what the server saw

```
2012-09-16 13:09:23 INFO EcccServer doPost:78 checking for request parameters...
2012-09-16 13:09:23 INFO EcccServer doPost:93 a: "add"
2012-09-16 13:09:23 INFO EcccServer doPost:93 one: "FIRST"
2012-09-16 13:09:23 INFO EcccServer doPost:93 two: "SECOND"
2012-09-16 13:09:23 INFO EcccServer doPost:93 three: "THIRD"
```


connecting to an arbitrary port

```
list
10 open15,7,15
20 open2,1,2,"tcp:192.168.10.201,1953"
30 print#2,"wizard is the best cat a boy
   ever had!"
40 print"reading echo..."
50 input#2,ec$:printec$
60 close2:close15:end
ready.
run
reading echo...
wizard is the best cat a boy ever had!
ready.
```

what the server saw

```
2012-09-16 13:27:04 INFO ConnectionListener <init>:35 -----
2012-09-16 13:27:04 INFO ConnectionListener <init>:36  FlyerServer 0.01
2012-09-16 13:27:04 INFO ConnectionListener <init>:37 -----
2012-09-16 13:27:04 INFO ConnectionListener <init>:40 server: opening socket
2012-09-16 13:27:12 INFO ConnectionThread run:47 received connection from /192.168.1.203:1953
2012-09-16 13:27:12 INFO ConnectionThread run:55 received: WIZARD IS THE BEST CAT A BOY EVER HAD!
2012-09-16 13:27:12 INFO ConnectionThread run:58 server: client thread /192.168.1.203:1953 ending
```


- official web site:

`http://www.retroswitch.com/products/flyer/`