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 (connected)
PET with Flyer on IRC
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 gROOVY dISK"
configuring network settings

10 OPEN #15, 7, 15
20 PRINT #15, "CONFIG: IP=192.168.1.203"
30 PRINT #15, "CONFIG: SU=255.255.255.0"
40 PRINT #15, "CONFIG: GA=192.168.1.99"
50 PRINT #15, "CONFIG: DN=192.168.1.99"
60 CLOSE #15

(note: DHCP also supported)
The flash drive also presents a second unit like the older Commodore drives, containing utility programs.

LOAD"$1",10

LOAD"1:CONFIG",10
list available firmware revisions:
LOAD"$^" , 7

list revisions w/release notes:
LOAD"$:^:* , V" , 7

upgrade to current firmware version:
LOAD"^:^:*", 7
<table>
<thead>
<tr>
<th>Firmware Version</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2011-11-12</td>
</tr>
<tr>
<td>1.1.2</td>
<td>2011-11-18</td>
</tr>
<tr>
<td>1.1.3</td>
<td>2011-12-03</td>
</tr>
<tr>
<td>1.1.4</td>
<td>2011-12-15</td>
</tr>
<tr>
<td>1.1.5</td>
<td>2012-01-10</td>
</tr>
<tr>
<td>1.1.6</td>
<td>2012-02-11</td>
</tr>
<tr>
<td>1.1.7</td>
<td>2012-03-11</td>
</tr>
<tr>
<td>1.1.8</td>
<td>2012-05-17</td>
</tr>
<tr>
<td>1.1.9</td>
<td>2012-09-05</td>
</tr>
</tbody>
</table>
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 names
5 - n-a now works with http channels
5 - disk directory padding fixes
5 - relaxed some dos checks (fixed cbm cmd mdr compat issues)
5 - dos cmd status now shows flyer ident on startup and init
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

100 OPEN 15, 7, 15
20 PRINT #15, "CONFIG: CLDNAM2=ORAC"
30 PRINT #15, "CONFIG: CLDSRV2=192.168.10.201"
40 PRINT #15, "CONFIG: CLDPRT2=1953"
50 PRINT #15, "CONFIG: CLDUSR2=SHADOWM"
60 PRINT #15, "CONFIG: CLDPWD2=WIZARD"
70 CLOSE 15
Cloud Server 1.0.3
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Server running on IP: 192.168.10.201 PORT: 1953
directory listings

- 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
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 (G128)
- 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

My Disks

Overview
My Disks
My Programs
My Friends
My Profile

Search
Search
Filter by Tag:
No Filtering
Filter by Share:
No Filtering
Upload Disk Image
Create Disk Image

Our Mission

Commodore Online provides an easy to use solution for storing and retrieving disks (D94, D71, D60, D61 and D62) 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!

Latest from Retroswitch

Firmware/Software Updates (1.1.9)
Flyers In Stock
Why No Updates?
Flyer 1.1.8 Firmware
commodoreONLINE - sector display

Disk Editor

Sector Dump

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.
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/eccc?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$
199 close2:close15:end
ready.
run
A: "ADD"
ONE: "first"
TWO: "second"
THREE: "third"

ready.`
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Level</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-09-16</td>
<td>13:09:23</td>
<td>INFO</td>
<td>EcccServer doPost:78 checking for request parameters...</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:09:23</td>
<td>INFO</td>
<td>EcccServer doPost:93 a: &quot;add&quot;</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:09:23</td>
<td>INFO</td>
<td>EcccServer doPost:93 one: &quot;FIRST&quot;</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:09:23</td>
<td>INFO</td>
<td>EcccServer doPost:93 two: &quot;SECOND&quot;</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:09:23</td>
<td>INFO</td>
<td>EcccServer doPost:93 three: &quot;THIRD&quot;</td>
</tr>
</tbody>
</table>
list
10 open15,7,15
20 open2,7,2,"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.
<table>
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<th>Module</th>
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<tr>
<td>2012-09-16</td>
<td>13:27:04</td>
<td>INFO</td>
<td>ConnectionListener</td>
<td>&lt;init&gt;:35 ----------------------------------------------------------------</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:27:04</td>
<td>INFO</td>
<td>ConnectionListener</td>
<td>&lt;init&gt;:36 FlyerServer 0.01</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:27:04</td>
<td>INFO</td>
<td>ConnectionListener</td>
<td>&lt;init&gt;:37 ----------------------------------------------------------------</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:27:04</td>
<td>INFO</td>
<td>ConnectionListener</td>
<td>&lt;init&gt;:40 server: opening socket</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:27:12</td>
<td>INFO</td>
<td>ConnectionThread</td>
<td>run:47 received connection from /192.168.1.203:1953</td>
</tr>
<tr>
<td>2012-09-16</td>
<td>13:27:12</td>
<td>INFO</td>
<td>ConnectionThread</td>
<td>run:55 received: WIZARD IS THE BEST CAT A BOY EVER HAD!</td>
</tr>
</tbody>
</table>
official web site:

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