Payload Command and Options Summary

Command (1)	XMM Loader (<= 1)	Binaries to Load (0 +)	Port For First Load (<= 1)	Port For Second Load (<= 1)	Timing Options (0 +)	YModem Options (0 +)	Other Options (0 +)
payload	EEPROM*[_n]* FLASH*[_n]* SRAM*[_n]* MOUSE XMM Hydra_Mouse Hybrid_Mous e	program	-p <port>	-s <port>	-f msec -k msec -n msec -r msec -t msec -u msec	-S msec -T msec	-a port -A key -b baud -c cpu -d -e -g c,r -i -I term -j -L name -l -m max -o vers -q mode -v -w -x -y -z

All Command Line Options:

```
-? or -h  print this helpful message and exit (-v for more help)
-a port   find ports automatically, starting from specified port
-A key    set attention key (default is 1, 0 disables)
-b baud   use specified baudrate
-c cpu    cpu destination for catalina download (default is 1)
-d        diagnostic mode (-d again for more diagnostics)
-e        program the EEPROM with the program loaded
-f msec   set interfile delay in milliseconds (default is 500)
-g c,r    set terminal columns and rows - default is 80,24
-i        interactive mode - act as terminal after load
-I term   interactive mode - run program 'term' after load
-j        disable lfsr check altogether
-k msec   set interpage delay in milliseconds (default is 0)
-L name   execute the named Lua script after opening the port
-l        use old style lfsr check (slower)
-m max    set max_attempts (default is 5)
-n msec   set sync timeout in milliseconds (default is 100)
-o vers   override Propeller version detection (vers 1 = P1, 2 = P2)
-p port   use port for downloads (just first download if -s used)
-q mode   line mode (1=ignore CR, 2=ignore LF, 4=CR to LF, 8=LF to CR,
          16=Auto CR on LF Output, 32=CR or LF moves cursor
          NOTE: modes can be combined, e.g. -q3 = -q1 -q2)
-r msec   set reset delay in milliseconds (default is 0)
-s port   switch to port for second and subsequent downloads
-S msec   set YModem timeout in milliseconds (default is 3000)
-t msec   set read timeout in milliseconds (default is 250)
-T msec   set YModem timeout in milliseconds (default is 3000)
-u msec   set reset time in milliseconds (default is 15)
-v        verbose mode (or include port numbers in help message)
-w        wait for a keypress between each load
-x        do catalina download only (boot loader already loaded)
-y        do not display download progress messages
-z        double reset
```

NOTE:

- The **.binary** suffix is optional on binary files to be loaded. If it is not present, payload will try **.bin**, then **.eeprom**, then **.binary**
- **Hydra_Mouse** is the XMM Loader for the Hydra mouse port. The *build_utilities* batch file will also create a copy called **MOUSE**.
- **Hybrid_Mouse** is the XMM Loader for the Hybrid mouse port. The *build_utilities* batch file will also create a copy called **MOUSE**.
- For Multi-CPU platforms (e.g. TriBladeProp), the *build_utilities* batch file creates **EEPROM**, **FLASH** and **SRAM** utilities for each CPU with the suffix ***_n*** (where n = 1,2 or 3). A copy *without* the suffix is also made when building utilities for the default CPU.
- The *build_utilities* batch file will copy the default XMM Loader for Single-CPU XMM platforms, or for the default CPU on Multi-CPU platforms, to **XMM** – it may be the **FLASH**, **SRAM** or **MOUSE** loader. However, the use of **XMM** is deprecated in this release – use **FLASH, SRAM** or **MOUSE** instead.