

## Flash HuCard Protocol Specification V1.0

After installing the Drivers from the CD, the Flash HuCard may be accessed as a standard COM port. If writing for a non-Windows operating system, drivers may be downloaded from the following site: <http://www.ftdichip.com/Drivers/VCP.htm> (for device FT232R)

The following COM settings are required:

BAUD: 256000 (256Kbit/s)  
PARITY: None  
DATA BITS: 8  
STOP BITS: 1

### Sending Data to the Flash HuCard

This command packet sends data to be stored in the HuCard's Flash Memory. The Data Size (Byte5 - Byte260) must be exactly 256. If the very last packet requires less than 256 bytes, then fill the remaining bytes with 0xFF.

The checksum byte is the addition of packet bytes 2 through 260.

#### PC Sends Data Packet

Byte1	0x5A
Byte2	Address MSB
Byte3	Address Middle
Byte4	Address LSB
Byte5 - Byte260	Data
Byte261	Checksum

### Receiving the reply from the Flash HuCard

The response from the Flash HuCard is 6 bytes in length. The Address bytes are just an echo back from the last packet that the PC transmitted. If byte5 has a value of 0x01, then the data was successfully received by the Flash HuCard, and the PC can send it's next packet, while the data is being written to flash memory of the HuCard. When the very first packet is sent, a chip-erase is performed. This typically takes 8 seconds, but could take as long as 30 seconds! The Response will not be sent until the erase procedure is complete.

The checksum byte is the addition of packet bytes 2 through 5.

#### Response from Flash HuCard

Successful Data Transmission		Error with Transmission	
Byte1	0xA5	Byte1	0xA5
Byte2	Address MSB	Byte2	Address MSB
Byte3	Address Middle	Byte3	Address Middle
Byte4	Address LSB	Byte4	Address LSB
Byte5	0x01	Byte5	0x00
Byte6	Checksum	Byte6	Checksum

\* There is currently only the ability to WRITE data to the Flash HuCard. There is currently no function implemented to read data back out of the Flash HuCard.