GRIDBluFly Comparison with Firefly

A replacement product called the GRIDBluFly™ has been developed with the same form and fit and with similar function to the original Firefly. The GRIDBluFly hardware is almost identical with the same DB9 connector, plastic case, power supply, LEDs, configuration switches and jumpers. The GRIDBluFly is still a Class 1 Bluetooth® radio device, now with a 2.4GHz RF PCB trace antenna.

We have also tried to maintain as much compatibility as possible with the original Firefly with regard to configuration commands and operation, but only the most used options have been implemented. Two BluFly devices can be configured and paired to make a wireless RS232 cable replacement. A PC with Bluetooth capability can also pair with a single BluFly with the Serial Port Profile (SPP) creating a virtual COM port for wireless serial communication.

	GRIDBluFly	**Firefly**
Antenna	PCB trace	ceramic chip
Bluetooth Version	4.2	2.0
Bluetooth Modes	BR + EDR + BLE (server only)	BR + EDR
Range	Class 1 300’	Class 1 330’
Profiles	SPP only, Custom GATT profiles for BLE clients	SPP, DUN-DTE, DUN-DCE, MDM SPP, HID
Power Input	5-16VDC	4-16VDC
Low Power Mode	N	Y
Temperature Range	0 to 70 °C	-40 to 70 °C

<u>Hardware Differences</u>
The internal jumper block pin assignments have been changed and re-oriented. Hardware flow control is disabled by default and enabled with the SHWF command. Please refer to the User Guide for proper jumper placement.

<u>The GRIDBluFly no longer accepts the following commands:</u>

SE,<1,0>	Encryption is always enabled
SH,<value>	HID profile is not supported
SI,<hex word>	Set Inquiry Scan Window not available
SJ,<hexword>	Set Page Scan Window not available
SM,<6,5,4,3,2,1,0>	Auto Connect Modes 4 and 5 not supported
SS,<text>	Set Service Name not available, SPP only
SW,<hex word>	Set Low Power mode not available
SX,<1,0>	Set Bonding not available
S|,<value>	Set Low Power Connect not available
S~,<value>	Set Profile not available
S?,<0,1>	Set Role Switch not available
CT<address>,<timer>	Connect with Timer not available
L	Link Quality not available
T,<0,1>	Pass Received Data in Command mode not available
Z	Low Power mode not available

<u>These are new GRIDBluFly commands that may be required for some applications:</u>

SHWF,<0,1>/GHWF Set and Get UART Hardware Flow control
(no longer always enabled and bypassed with jumper)