

CB-OBS411 FIRMWARE

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1 General

Bluetooth *Serial Port Adapter*[™] firmware, cB-2145, with *Wireless Multidrop*[™] and *Extended Data Mode* support (up to 3 simultaneous Bluetooth connections).

The firmware is valid for the following *Serial Port Adapter*[™] models:

- cB-OBS411

If you experience problems with your *Serial Port Adapter*[™] please fill out an anomaly report and email it to support@connectblue.com.

To get information about connectBlue products and upgrades please register a support account on www.connectblue.com.

2 Version 4.3.3

Firmware Binary	Version	Comment
cB-2145-05(fw_obs411_v4.3.3).bin	4.3.3 [09:19:37,May 27 2010]	Official version 4.3.3 release <ul style="list-style-type: none">• Added repeater functionality as part of the Wireless Multidrop AT command (AT*ADWM) auto forward parameter.• Added AT command to configure, read or write (AT*AMCIO, AT*AMRIO, AT*AMWIO) some of the digital IO pins not previously used.• Added Browse Group List Service Class to support a certain type of service searches.• Bug fix for loss off link keys at reset. See AT Command Specification for details.

2.0.0.1 Known Limitations and Notes

In version 4.3.2 an automatic packet control algorithm was implemented to improve link robustness for long range or if there are obstacles. It is enabled only for the default link policy (see AT*AML P). The algorithm decreases the packet size if the link is poor, to improve robustness. It prioritizes link robustness at the cost of keeping the best performance for as long as possible. If you find it too defensive and prefer to keep the bigger size packets for better throughput the automatic packet control algorithm can be disabled by setting link policy (0,1) or any other link policy than the default one (0,0).

The following AT command will disable the automatic packet control:

```
AT*AML P=0,1,1
```

3 History

Firmware Binary	Version	Comment
cB-2145-04	4.3.2 [13:08:25, Feb 26 2010]	<p>Official version 4.3.2 release</p> <ul style="list-style-type: none"> • Added Extended Data Mode which is a simple protocol for individual channel control (see <i>Serial Port Adapter - Extended Data Mode</i> document for details) • Added PAN-PANU and PAN-NAP (see <i>Bluetooth Serial Port Adapter PAN Profile</i> document for details). Please note that only point-to-point is supported for PAN. • Added Link Quality (AT*AGLQ) command (see <i>Bluetooth Serial Port Adapter AT Commands</i> document for details) • Removed AT*AGFP? and AT*AGFP2? for security reasons. It is recommended to write a new pin code or passkey if forgotten. • Bug fix regarding response of AT*AGB command. Syntax of response was not correct. • Bug fix for master/slave switch. • Improved automatic packet control for default link policy. <p>For customers that received a developers drop of the firmware, please note that the <i>Extended Data Mode Connect Event</i> has been modified as well as the AT*ADDM= command. See documentation for details.</p>
cB-2145-03	4.3.1 [11:05:46, Sep 17 2009]	<p>Official version 4.3.1 release.</p> <ul style="list-style-type: none"> • Extended support for simple pairing (see <i>Bluetooth Serial Port Adapter Security</i> document for details.) • External connect button is now a functional button where it is also possible to enable pairing temporarily for security mode 4. • Implemented Bond command (AT*AGB). • Implemented Get RSSI command (AT*AGRSS) • Added Service Name command (AT*ADRSN/AT*ADWSN). • Improved stability and robustness.
cB-2145-02	4.3.0 [15:00:16, Jun 3 2009]	Firmware release for engineering samples