



BlueMod+S/SR Delta Reference

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TELIT
TECHNICAL
DOCUMENTATION

BlueMod+S

BlueMod+SR Delta Reference

Release r03

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Table of contents

1	Introduction	5
2	General Differences	5
3	Commands with Deltas	5
	%B Baud Rate	5
	UICP Set UART Interface Control Protocol	5
	LEADINTMIN Minimum Advertising Interval	6
	LEADE Enable Customized Advertising	6
	LEROLE Bluetooth Low Energy Device Role	6
	LEATTRIB Define Attributes for a Service	6
	I Display Version Information	6
4	Related Documents	8
5	History	9

1 Introduction

This documentation specifies the deltas in the command interface for the BlueMod+S and BlueMod+SR.

2 General Differences

The **BlueMod+S** does not support client mode at the moment. Therefore the following commands are not available:

- AT+BND
- AT+BSSPDBG
- ATD
- AT+LENAME
- AT+LESCAN

3 Commands with Deltas

On **BlueMod+S** the following three commands are also valid in “normal Mode”.

The configured data is stored by AT&W command.

- AT+LEADDATA
- AT+LEADPAR
- AT+LESCDATA

On **BlueMod+SR** this command are only valid in MUX mode. The data is not stored by AT&W command.

%B	Baud Rate
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The **BlueMod+S** is able to set fixed baud rates as listed in [4].

The **BlueMod+SR** is able to set every custom baud rate between 9,600 and 921,600 bps.

UICP	Set UART Interface Control Protocol
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The **BlueMod+S** needs a parameter save and a reset to enable UICP.

On the **BlueMod+SR** the parameter is valid without a reset.

LEADINTMIN	Minimum Advertising Interval
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The **BlueMod+S** has only fix advertising interval, not a window. The value for the fix interval is set using **AT+LEADINTMAX**. This parameter is not used.

The **BlueMod+SR** has an advertising window. It uses **AT+LEADINTMAX** and **AT+LEADINTMIN** to define this window.

LEADE	Enable Customized Advertising
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On **BlueMod+S** this command has an extended functionality. It is possible to switch advertising off by setting this parameter to 3 in normal operation mode. This functionality is provided for power saving reasons.

On **BlueMod+SR** this command is only valid in MUX mode.

LEROLE	Bluetooth Low Energy Device Role
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On **BlueMod+S** only peripheral mode ist supported (value 0).

On **BlueMod+SR** client and peripheral mode are supported (value 0 and 1).

LEATTRIB	Define Attributes for a Service
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On **BlueMod+S** a characteristic definition is complete after issuing a **AT+LEATTRIB** command with type set to "charval". This means **AT+LEATTRIB** commands with type set to "char", "chardcccd" and "chardusrd" have to issued before "charval".

Characteristic Default value is set to 0:

On **BlueMod+SR** a the definition order is "char", "charval", "chardcccd" and "chardusrd" due to internal software requirements.

Characteristic has no default value. It returns an error if value was not set before access over Bluetooth.

I	Display Version Information
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On **BlueMod+S** the command "ATi77" displays the bootloader version.

On **BlueMod+SR** the command "ATi77" reports ERROR.

S	AT S Register
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AT syntax: **ATSx=<value>**

This command configures the S register settings.

On BlueMod+S S30 is not supported.

S30	0	Escape characters will not be transmitted to the remote device
	1	Escape characters will be transmitted to the remote device

4 Related Documents

- [1] BlueMod+S Hardware Reference
- [2] BlueMod+S User Guide
- [3] Bluetooth 4.0 Core Specification
- [4] BlueMod+S AT Command Reference

5 History

Version	Release Date	By	Change description
r01	06.03.2014	or	Initial version
r02d01	11.06.2014	or	Add custom gatt server and advertising commands. Add bootloader version support.
r02	27.08.2014	or	Add infos to AT+LEATTRIB Second Release
r03	26.05.2016	bg	Telit cover page added

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