

Plug and Play Wireless CPU®

Delta between M1306B and FASTRACK Supreme

Reference: WA_DEV_Fastrk_UGD_004 Revision: 1.0d Date: 1 June, 2007





Delta between M1306B and FASTRACK Supreme WA DEV Fastrk UGD 004

Document Information

Level	Date	History of the evolution	Writer
1.0	23 Feb, 07	Creation	MLO
1.0a	9 Mar, 07	Section 2.1, update storage temperature range	MLO
		Section 2.2.2.1, mention about RF connector position shift	
1.0b	13 Apr, 07	Section 2.2.1, add position move of SubD 15 pin connector	MLO
		Section 2.2.2.2, add position move of RF connector	
		Section 2.2.2.2, add SIM locked/unlocked position	
		Section 3, add reference document	
1.0c	31 May, 07	Section 2.1, add quad band information	MLO
		Modification based on comment	
1.0d	1 Jun, 07	Section 2.2.2.1, item 2, wording change	MLO
		Add footer	

	Name	Function	Date	Signature
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Approved by				





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Contents

1	INTROD	UCTION	4
2	DELTA I	BETWEEN M1306B & FASTRACK SUPREME	4
2.′	1 Produ	ct Specification Delta	4
2.2	2 Mech	anical Delta	5
	2.2.1	Front View	5
	2.2.2	Back view	
	2.2.2.1	Comparison between M1306B and FASTRACK Supreme	6
	2.2.2.2	Additional Possible IESM Plug In for FASTRACK Supreme.	6
2.3	B Electi	ical Delta	7
	2.3.1	Voltage Level for BOOT and RESET Signals on SubD 15-pin Connector Output	
	2.3.2	GPIO on Micro-Fit Connector Output	7
	2.3.3	Additional RTC Battery Backup Feature	7
	2.3.4	SIM Voltage	7
	2.3.5	Serial Port Auto Shut Down	8
	2.3.6	Additional IES Interface	
2.4	4 Softw	are Supported Feature Delta	8
3	REFERE	NCE DOCUMENT	8





1 INTRODUCTION

This document gives the brief comparison between the new generation FASTRACK Supreme Plug & Play and the previous generation M1306B. It provides information for current M1306B customers aiding their migration to the new generation FASTRACK Supreme 10 or 20.

2 DELTA BETWEEN M1306B & FASTRACK SUPREME

2.1 Product Specification Delta

FEATURE			Plug & Play		
		M1306B	FASTRACK Supreme 10	FASTRACK Supreme 20	
GSM850		X	\checkmark	\checkmark	
GSN	1900	\checkmark	\checkmark	\checkmark	
DCS	1800	\checkmark	\checkmark	\checkmark	
PCS	1900	X	\checkmark	\checkmark	
EGPRS	Class 10	X	Х	\checkmark	
1.8V	SIM	Х	\checkmark		
3V SIM		\checkmark	\checkmark		
5V 3	SIM	possible by adding external level shifter			
SIM card Lock		X	\checkmark	\checkmark	
GSM850/PCS1900 band available for use (Remark: no FCC/PTCRB on Plug & Play)		x	\checkmark	\checkmark	
RTC back	up battery	Х	\checkmark		
Serial Port AutoShutDown		Х	\checkmark		
	Class A Note 1	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C	
Temperature Range	Class B Note 2		-30°C ~ +85°C	-30°C ~ +85°C	
	Storage	-25°C ~ +70°C	-40°C ~ +85°C	-40°C ~ +85°C	
IESM flexibility		X	\checkmark		

Note 1: Compliant to full GSM specification

Note 2: Operational, to establish a voice, SMS or DATA call (temperature range is subjected to be changed depending on the final performance after the qualification)

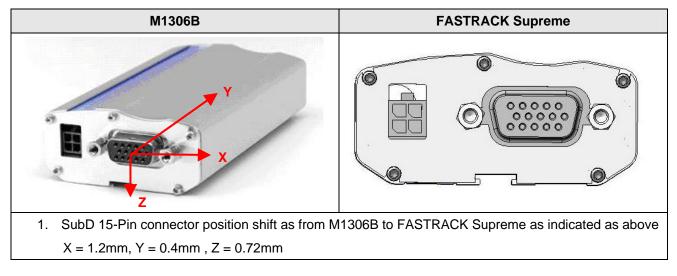


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2.2 Mechanical Delta

2.2.1 Front View





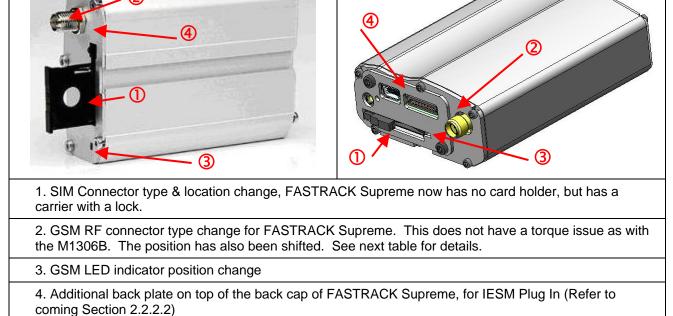


2.2.2 **Back view**

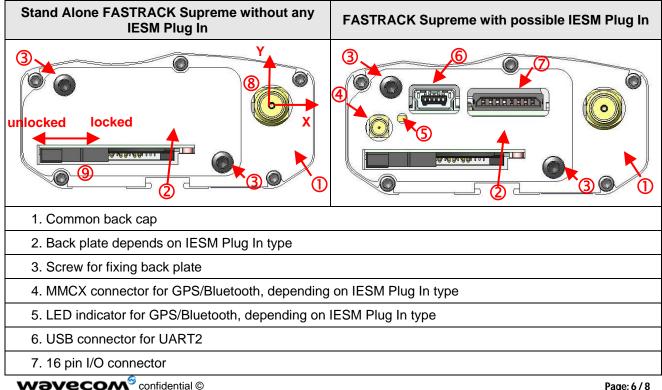
2.2.2.1

M1306B **FASTRACK Supreme**

Comparison between M1306B and FASTRACK Supreme



2.2.2.2 Additional Possible IESM Plug In for FASTRACK Supreme.



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- 8. RF connector position move when comparing with M1306B: X = 4.0mm, Y = 0.15mm
- 9. SIM locked/unlocked position

2.3 Electrical Delta

2.3.1 Voltage Level for BOOT and RESET Signals on SubD 15-pin Connector Output

SubD 15-pin Connector Pin no.	Signal	M1306B	FASTRACK Supreme
3	BOOT	2.8V	1.8V
14	RESET	2.8V	1.8V

2.3.2 GPIO on Micro-Fit Connector Output

There are 2 GPIOs available on the Micro-Fit Connector output for both M1306B and FASTRACK Supreme Plug & Play but the GPIO mapping and reset status is different.



Micro Fit Connector Pin no.	M1306B		FASTRACK Supreme	
	Signal	Reset Status	Signal	Reset Status
3	GPIO4	Low	GPIO21	Undefined
4	GPIO5	Low	GPIO25	Z

2.3.3 Additional RTC Battery Backup Feature

FASTRACK Supreme Plug & Play has an additional RTC battery which enables the unit to retain the time after power removal. For detail, please refer to Document [1].

2.3.4 SIM Voltage

SIM Voltage	M1306B	FASTRACK Supreme	
1.8V	Х	\checkmark	
3V		\checkmark	
5V	possible by adding external level shifter		

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2.3.5 Serial Port Auto Shut Down

FASTRACK Supreme Plug & Play implement the Serial Port Auto Shut Down feature for improving the power consumption when there is no data communication between the Plug & Play and the DTE.

2.3.6 Additional IES Interface

FASTRACK Supreme Plug & Play provide an additional IES Interface for customer to expand the application features like GPS, I/O expander, Bluetooth..., etc. It is a 50 pin interface including GPIOs, SPI, UART, PCM, USB, Interrupt and various voltage supplies. For detail, please refer to document [1] and [2].

2.4 Software Supported Feature Delta

Feature	Plug & Play		
i eature	M1306B	Supreme 10	Supreme 20
Open AT Plug-In compatibility	Х	\checkmark	

3 REFERENCE DOCUMENT

- [1] "Plug and Play Wireless CPU® -- FASTRACK Supreme User Guide", WA_DEV_Fastrk_UGD_001
- [2] "IESM Product Technical Specifications", WA_DEV_Fastrk_PTS_001
- [3] "IESM-GPS+USB User Guide", WA_DEV_Fastrk_UGD_002
- [4] "IESM-GPS+USB Installation Guide", WA_DEV_Fastrk_UGD_003
- [5] "IESM-IO+USB User Guide", WA_DEV_Fastrk_UGD_006
- [6] "IESM-IO+USB Installation Guide", WA_DEV_Fastrk_UGD_005

