

FASTRACK SUPREME



INTRODUCTION

PLUG & PLAY ACHIEVES THE NEXT LEVEL

The Wavecom Fastrack Supreme has the same versatile Plug & Play form factor as previous Fastrack products, packed with a host of new features that will carry your applications well into the future. That's because it's designed to accommodate any additional features you can imagine thanks to a revolutionary, open standard Internal Expansion Socket you can populate with an expansion card from Wavecom – or one of your own. It will be available Q2/3 2007.

EVERYTHING YOU LOVE AND MORE

Evolve to the latest cellular technology and add functionality without sacrificing the form factor you've come to rely on. The Fastrack Supreme is the same size, has the same interfaces and is completely backward compatible.

POWERFUL CORE APPLICATION PROCESSING

Every Fastrack Supreme features a Wavecom Q26-family Wireless CPU®: a powerful central processing unit with an ARM9 32 bit, 26-104MHz core.

OPTIONS DESIGNED WITH YOU IN MIND

Choose from three Wavecom expansion cards: IO expansion with mini USB connectivity; GPS and USB, or IO expansion, GPS and USB. And watch this space for additional expansion options in the future.

UNHEARD-OF EXPANDABILITY

Add additional IO connectivity or features like GPS, WiFi, Bluetooth, Zigbee and more. The open interface means you can develop your own expansion modules for your specific needs. Or, choose a Wavecom expansion card.

OPEN AT® REAL-TIME OS

The OS allows developers to natively execute their program with minimum processor resource overhead and minimum memory footprint. Up to 87MIPS are at your disposal.

GLOBAL WIRELESS CONNECTIVITY

With Internet connectivity to more than 600 GSM/GPRS and EDGE networks worldwide, plus 3G and HSDPA to come, Fastrack Supreme offers the ultimate in global connectivity

MOBITEK System Sdn .Bhd. (207015-D)

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FASTRACK SUPREME

DIFFERENCE BETWEEN M1306B AND SUPREME

FEATURE		Plug & Play		
		M1306B	FASTRACK Supreme 10	FASTRACK Supreme 20
GSM850		X	√	√
GSM900		√	√	√
DCS1800		√	√	√
PCS1900		X	√	√
EGPRS Class 10		X	X	√
1.8V SIM		X	√	√
3V SIM		√	√	√
5V SIM		possible by adding external level shifter		
SIM card Lock		X	√	√
GSM850/PCS1900 band available for use (Remark: no FCC/PTCRB on Plug & Play)		X	√	√
RTC back up battery		X	√	√
Serial Port AutoShutDown		X	√	√
Temperature Range	Class A ^{Note 1}	-20°C ~ +55°C	-20°C ~ +55°C	-20°C ~ +55°C
	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	√	√

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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SPECIFICATION

Table 4: Basic features of the FASTRACK Supreme

Features	GSM850 / GSM900	DCS1800 / PCS1900
Open AT [®]	Open AT [®] programmable: Native execution of embedded standard ANSI C applications, Custom AT command creation, Custom application library creation, Standalone operation.	
Standard	850MHz / 900 MHz. E-GSM compliant. Output power: class 4 (2W). Fully compliant with ETSI GSM phase 2 + small MS.	1800 MHz / 1900MHz Output power: class 1 (1W). Fully compliant with ETSI GSM phase 2 + small MS.
GPRS	Class 10. PBCCH support. Coding schemes: CS1 to CS4. Compliant with SMG31bis. Embedded TCP/IP stack.	
EGPRS (for FASTRACK Supreme 20 only)	Output power: 0.5W	Output power: 0.4W
	Class 10. PBCCH support. Coding schemes: MCS1 to MCS9. Compliant with SMG31bis. Embedded TCP/IP stack.	

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Features	GSM850 / GSM900	DCS1800 / PCS1900
Interfaces	RS232 (V.24/V.28) Serial interface supporting: <ul style="list-style-type: none"> ▪ Baud rate (bits/s): 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800 and 921600. ▪ Autobauding (bits/s): from 1200 to 921600. 2 General Purpose Input/Output gates (GPIOs) available. 1.8 V / 3 V SIM interface. AT command set based on V.25ter and GSM 07.05 & 07.07. Open AT [®] interface for embedded application. Open AT [®] Plug-In Compatible.	
SMS	Text & PDU. Point to point (MT/MO). Cell broadcast.	
Data	Data circuit asynchronous. Transparent and Non Transparent modes. Up to 14.400 bits/s. MNP Class 2 error correction. V42.bis data compression.	
Fax	Automatic fax group 3 (class 1 and Class 2).	
Audio	Echo cancellation Noise reduction Telephony. Emergency calls. Full Rate, Enhanced Full Rate, Half Rate operation and Adaptive Multi-Rate (FR/EFR/HR/AMR). Dual Tone Multi Frequency function (DTMF).	

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PHYSICAL DESCRIPTION

The FASTRACK Supreme description is given in the Figure 4 below.

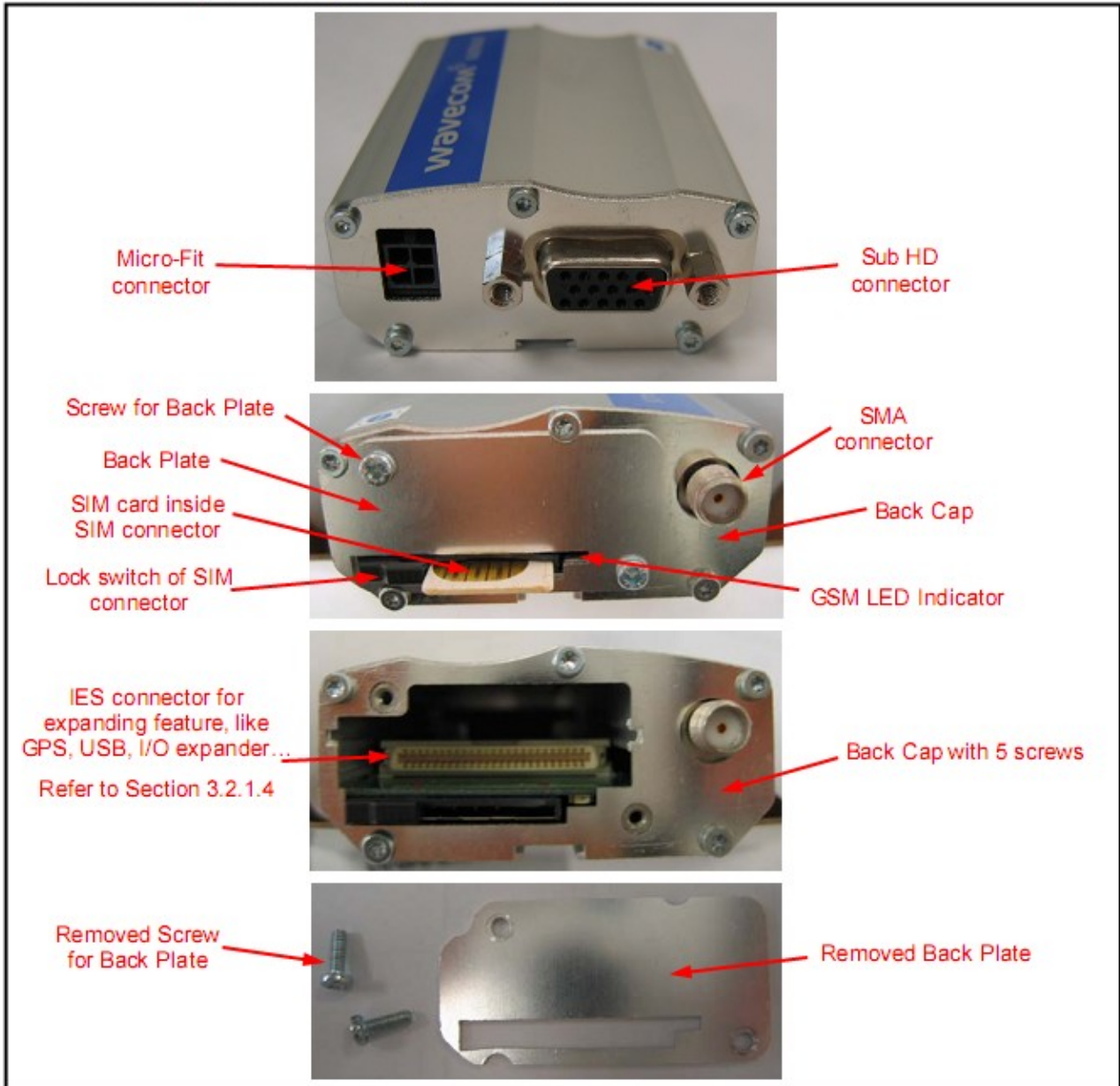


Figure 4: FASTRACK Supreme general description

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