

# SAMBA3G

## UMTS/HSDPA Quad Band Modem

- UMTS/HSDPA with up to 7,2 Mbps
- Quad Band GSM/GPRS/EDGE engine
- Data, Fax, SMS, MMS, Voice
- Audio interface
- Integrated SIM interface
- GSM antenna included
- Plug-n-Play
- USB connector
- Very lightweight
- World-wide applicable



### The FALCOM SAMBA3G

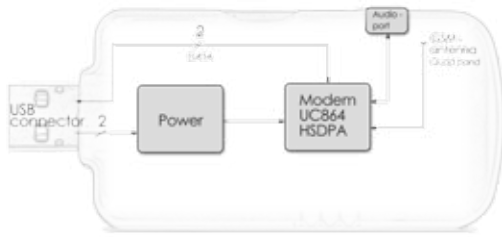
is a Plug-and-Play, compact, lightweight, wireless modem that provides UMTS/HSDPA, EDGE, GPRS and GSM connectivity for portable, handheld computers and others. The major benefit over earlier SAMBA GSM/GPRS modem is that SAMBA3G supports the latest radio standard UMTS/HSDPA.

SAMBA3G allows subscribers to send and receive data, including digital images, web pages and photographs, with a transfer rate up to 7,2 Mbps. It supports MMS, SMS, fax and E-mail as well.

It can be easily controlled by using AT command for all kinds of operations. The SAMBA3G is designed for use on any GSM network in the world.



## Block diagram



## Software driver

Modem driver for Microsoft® Windows XP/Vista and Linux

## Hardware requirements

Pentium® 90 or higher with

- CD-ROM drive
- A valid SIM card
- Free compatible USB port
- Appr. 50 Mb of free hard disk space

## Technical specification

<b>General</b>	<b>GPRS</b>
GSM 900 MHz, DCS 1800 MHz	downlink transfer: max. 85.6 kbps.
Compliant to GSM Phase 2/2+	uplink transfer: max. 42.8 kbps.
WCDMA 2100 MHz	Modulation and Coding Scheme MCS 1 – 4
	<b>CSD</b>
<b>Transmit power</b>	Downlink/Uplink up to 14.4 kbps
Class 4 (2 W) at EGSM 900	
Class 1 (1 W) at GSM1800	<b>Electrical characteristics</b>
Class 3 (0.25W) at WCDMA 2100	Power supply: +5 V DC (through USB port)
Class E2 (0.5W) at GSM 900 (EGPRS mode)	compliant with USB 2.0 specification
Class E2 (0.4W) at GSM1800 (EGPRS mode)	
	<b>Physical characteristics</b>
<b>GPRS connectivity</b>	Dimensions: (L x W x H)
GPRS multi-slot class 12	88.7 mm x 37.6 mm x 14.1 mm
GPRS mobile station class B	Weight: 35 g
	<b>Temperature range</b>
<b>EDGE connectivity</b>	Extended: -30 °C to +80 °C
EDGE multi-slot class 12	
EDGE mobile station class B	
	<b>Interfaces</b>
<b>DATA mode</b>	USB connector
<b>HSDPA</b>	Internal SIM interface: 3 V only
Data downlink transfer: max. 7.2 Mbits/s	
Data uplink transfer: max. 384 kbps	<b>Basic features</b>
<b>WCDMA</b>	Voice and SMS, MMS compliant
Data downlink/uplink transfer: max. 384 kbps	Embedded TCP/IP stack with IP and UDP protocols, access via AT commands
<b>EDGE</b>	
downlink transfer: max. 236.8 kbps (4 x downlink)	
Achieving average of 80 to 160 kbps	<b>Other features</b>
uplink transfer: max. 118.4 kbps (2 x uplink)	Firmware upgrade over USB interface
Coding scheme: MCS 1 - 9	

Note: Specifications and information given in this document are subject to change by FALCOM without notice.  
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