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Bluetooth Module



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Bluetooth module

■ INTRODUCTION

Bluetooth wireless technology is a 2.4GHz ISM-band open industry standard for short range wireless communication, which is capable of voice and data transfer (up to 723 kbps data transfer in ACL link or up to 3 simultaneous voice connections in SCO links in a piconet).

In this document, the SEMCO-Bluetoth Modules are presented, which consists of RF, baseband, and link manager protocol together with Host Controller Interface(HCI) / HCI-UART functionality implemented according to the Bluetooth specification version 1.1.

SEMCO-Bluetoth Modules are designed for use as an universal Bluetooth module compliant for the Bluetooth specification version 1.1, which can be applied to hand-held phones, PDAs, headsets, PCs and PC-peripherals, et cetera for wireless voice and data communication. SEMCO-Bluetoth Modules or Evaluation Board Demo Kits are available by Samsung Electro-Mechanics for development.

Further more detailed information on the SEMCO-Bluetoth v1.1 modules, are presented in this document below, or also available on our web site under http://www.sem.samsung.com/bluetooth

■ FEATURE AND APPLICATION

Model Name		BTMZ5012XX	BTMZ7311XX	BTMZ4912XX	BTMZ5211XX	BTR1B2NR16KAA0			
	Common	Bluetooth specification version 1.1 Compliant							
	Chip Vendor	CSR BCO2	CSR BCO2	INFINEON INFINEON		BROADCOM			
	Product Type	RF + Baseband	RF + Baseband	RF + Baseband	RF + Baseband	RF only			
F E	Class	Class 2	Class 1	Class 2	Class 1	Class 2			
A T U R E S	Operating Temperature	-20°C ~ 85°C	-20°C ~ 75C	-40°C ~ 85°C	-40°C ~ 85°C	-30°C ~ 70°C			
	Voltage Range	2.7V ~ 3.6V	3.0V ~ 3.4V	3.0V ~ 3.6V	3.0V ~ 3.6V	2.7V ~ 3.3V			
	Size (mm)	18×14×2.0	26×14×2.0	15.3×15.3×2.1	15.3×16.2×2.1	9.5×8.9×1.9			
	Interface	UART,USB,PCM supported	UART,USB,PCM supported	UART,PCM supported	' I '				
	Memory Type	Flash embedded	Flash embedded	ROM Mask Type	ROM Mask Type	×			
	Firmware Upgrade	0	0	×	×	×			
	Qualification	0	0	TBD	TBD	0			
Applications		PCs, Mobile Pho	Mobile phone sets(CDMA, PCS phones)						

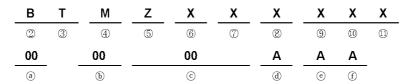


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■ Part Numbering

BTMZXXXXXX





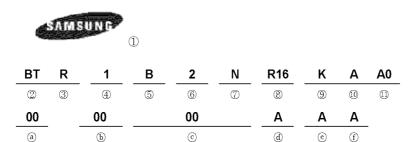


(g)

Symbols	Description	Symbols	Description
1	Manufacturing Company	a	Manufacturing year (20xx)
2,3	Abbreviation code (BT: Bluetooth)	(b)	Manufacturing month
4	Product type (RF+BB: M) Product type (RF : R)	©	Manufacturing date
5,6,7	Product volume (cc) (Z71: 0.71cc)	d	Code for Manufacturing line
8	Frequency Range (1: Europe/USA)	e	History
9	Classification of power (1: Class-1) Classification of power (2: Class-2)	(f)	Manufacturing Plant (Place)
10	(Interface & Baud rate : USB) : A (Interface & Baud rate : UART 115.2k) : C (Interface & Baud rate : UART 203.4k) : D	(g)	Bluetooth Qualification Logo
11)	Revision No. : 0, 1, 2,		

Bluetooth module

BTR1B2NR16KAA0





(g)

Symbols	Description	Symbols	Description
1	Manufacturing Company	10	Manufacturing Factory (A; Main Factory)
2	Product name (BT: Bluetooth)	11)	Serial Number (A0,A1)
3	Product type (RF+Baseband : M,RF only : R)	a	Manufacturing year (20xx)
4	Frequency Band (Europe/USA)	(b)	Manufacturing month
(5)	IC Maker (B : Broadcom)	©	Manufacturing date
6	Classification of power (2: Class-2)	d	Code for Manufacturing line
<u></u>	Whether or not contains antenna (N : Antenna)	e	History
8	Volume (R16 : 0.16cc)	(f)	Manufacturing Plant (Place)
9	Code of user Country (K : Korea)	g	Bluetooth Qualification Logo

