

FUJITSU WIRELESS MODULES

Fujitsu Wireless Modules

Fujitsu's wireless modules are designed to facilitate easy and simple integration. The wireless module product offering ranges from WLAN, Bluetooth and WLAN Bluetooth modules. Modules are available in surface mount and connector joint type and with or without antenna.

The Benefits

- Compact size
- Low power
- Technical and software support
- Certification support
- Easy to integrate (SMT and connector joint type)
- Antenna optimization

Applications

- Barcode scanners
- Handheld devices
- Mobile printers
- Media devices
- Security (cameras, etc.)
- Wireless peripherals
- Kiosks
- Domotics



Specifications

Feature	Description		
Category	Bluetooth®		
Part Number	MBH7BTZ50 MBH7BTZ52 MBH7BTZ53	MBH7BTZ39 MBH7BTZ42 MBH7BTZ43	MBH7BTZ40
Image			
Description	Surface mount and connectorized BT modules for iOS accessories	Surface mount module, w/ upper layer protocol stack (L2CAP, SDP, RFCOMM), built-in crystal, antenna (42, 43), connector (43)	Complete module, w/ upper layer protocol stack (L2CAP, SDP, RFCOMM), built-in crystal, antenna, connector, mounting holes
IC	CSR BlueCore 4 Ext. + CP	CSR BlueCore 4 Ext.	CSR Blue Core 4 Ext.
Bluetooth Spec	iOS Version 2.1 + EDR compliant	Version 2.1 + EDR compliant	Version 2.1 + EDR compliant
Bluetooth Power Class	Class 2	Class 2	Class 2
RF Datarate	Max. 3Mbps	Max. 3Mbps	Max. 3Mbps
RF Output Power	+4 dBm max.	+4 dBm max.	+4 dBm max.
RF Sensitivity	-87 dBm	-87 dBm	-87 dBm
Profiles	GAP, SPP, accessory protocol for iOS	GAP, SPP, SDAP, (*)	GAP, SPP, SDAP, (*)
Interface Bluetooth	UART	UART, SPI, GPIO	UART
Audio Interface	-	-	-
WLAN standard	-	-	-
QoS	-	-	-
Security	-	-	-
Bluetooth Co-existence	-	-	-
Interface WLAN	-	-	-
Connection	FPC/FFC connector (50) 47-pin LGA (52) Stacking connector (53)	45-pin LGA (39, 42) Connector Joint type (43)	FPC/FFC 10-pin connector
Antenna	Integrated antenna	Integrated (42, 43)	Integrated antenna
Supply Voltage	2.7 - 3.6 VDC	2.7 - 3.6 VDC	2.7 - 3.6 VDC
Temperature Range	-20 to +70C°	-20 to +70C°	-20 to +70C°
Size	31.0x15.0x2.5mm (50) 17.6x14.0x1.9mm (52) 26.0x19.0x2.3mm (53)	12.4x9.4x1.5mm (39) 17.6x10.6x1.9mm (42) 22.5x10.6x2.3mm (43)	31.0x15.0x2.5mm (40)
Evaluation Boards	MBH-SAKURA	MBH-SAKURA + MB7BTZxx - DAUGHTER (39, 42)/ MBH7BTZ43-S1	MBH-SAKURA +

Specifications

Feature				
Category	Bluetooth® & WLAN combo	WLAN		
Part Number	MBH7BWZ05 MBH7BWZ06	MBH7WLZ21 MBH7WLZ22	MBH7WLZ23 MBH7WLZ25	MBH7WLZ30 MBH7WLZ31
Image				
Description	Combo surface mount module, BT + WLAN co-existence support	Surface mount module (LGA 46pin) built-in crystal oscillator, antenna, USB connector (22)	Surface mount modules (LGA 60 pin), built-in crystal oscillator, Bluetooth co-existence support	Surface mount and connectorized modules with Built-in TCP/IP
IC	Texas Instruments WL1271 (05) WL1273 (06)	Ralink RT3070	Atheros AR6002XZ	-
Bluetooth Spec	Version 2.1 + EDR compliant	-	-	-
Bluetooth Power Class	Class 2	-	-	-
RF Datarate		-	-	-
RF Output Power		-	-	-
RF Sensitivity		-	-	-
Profiles		-	-	-
Interface Bluetooth	UART	-	-	-
Audio Interface		-	-	-
WLAN standard	IEEE802.11 b/g/n (05) IEEE802.11 a/b/g/n(06)	IEEE802.11b/g /n	IEEE802.11 a/b/g	IEEE802.11 b/g
QoS		WMM, WMM-PS	IEEE802.11e	
Security	WEP, WPA, WPA2	WEP (64/128bit), WPA, WPA2	WPS, WPA, WPA2	WPA-PSK, WPA2-PSK
Bluetooth Co-existence		Yes	Yes 2/3/4 wire	
Interface WLAN	SDIO, wSPI	USB 2.0	SDIO, GSPI	UART
Connection	58-pin LGA (05) tba (06)	44-pin LGA (21) USB dangle (22)	60-pin LGA w/ center GND (23) 20-pin stacking cn & 2-port RF coaxial cn (25)	10-pin LGA (30) Stacking connector (31)
Antenna	Single port (05) Dual antenna 2.4G/5G (06)	Diversity support (21) Integrated (22)	Diversity support	2-port (30) Integrated (31)
Supply Voltage	2.3 - 4.8 VDC	3.3 VDC (21) 5.0 VDC (22)	3.3 VDC (23) 3.3 VDC (25)	3.3 VDC
Temperature Range	-20 to +70C°	-10 to +70C°	-20 to +70C°	-10 to +85C°
Size	8.0x9.0x1.2mm (05) 12.0x12.0x1.8mm (06)	14.7x18.8x2.1mm (21) 17x59.0x4.8mm (22)	12.0x12.0x1.8mm (23) 22.0x26.0x4.7mm (25)	20.0x20.0x2.5mm (30) tba (31)
Evaluation Boards		MBH7WLZ22-S2	MBH7WLZ23-EV	tba

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MBH-SAKURA2-E