HOLTEK

Wireless Product Series

HOLTEK SEMICONDUCTOR INC.

www.holtek.com

HOLTEK RF Product Series

Introduction

Wireless communication is a mature technology for communication using electromagnetic wave. As people's life pace becomes faster and faster, the demand for their convenience and portability when using products also increases. The wireless function of existing products will greatly improve their convenience, such as light switches, fan/air conditioning switches, computer keyboards and mice, car keys, payment systems, etc., and the number and market of wireless products continue to grow and expand.

Table 1 shows common RF frequency bands and a comparison of their advantages and disadvantages. Users can quickly select the most suitable components and solutions for the wireless process of products according to the features and functional requirements listed in Table 1.

Symbol	Sub-1GHz	2.4GHz/BLE
Frequency Band	315MHz, 433MHz, 868MHz, 915MHz	2400MHz ~ 2483MHz
Bandwidth	Narrow: cannot avoid the co-channel interference	Wide: support frequency hopping to avoid the co-channel interference
Wavelength	Long: long antenna, high penetration	Short: short antenna, poor penetration
Data Rate	• Low: up to 250kbps • Usually transmit data • Higher power consumption when transmitting data of the same length	• High: 2Mbps • Can transmit files, audio and video • Low power consumption when transmitting data of the same length
Modulation Mode	OOK / (G)FSK	GFSK
Universality	• Northern America: 315MHz, 915MHz • European Union: 433MHz, 868MHZ • Other frequency bands in Japan and Australia	Universal

Table 1. RF Frequency Bands and Comparison of Advantages and Disadvantages

The HOLTEK, founded in 1998, is an international IC design company without its own fabs. It has developed and designed a wide range of IC products. Regarding RF wireless IC products, the Holtek has provided the following five series of wireless components for users to choose to use. Each series will be introduced further in subsequent sections.

- Sub-1GHz Transmitter Series
- Sub-1GHz Receiver Series
- Sub-1GHz Transceiver Series
- 2.4GHz Series
- BLE Beacon Series

The Holtek RF IC series products, are all from the RF solution company "BESTCOMM", which provides professional RF technical services. The Bestcomm has professional RF technicians in Taipei, Hsinchu and Chinese mainland Dongguan to provide services at any time. For the development and promotion of Holtek RF IC series products, the Bestcomm can provide:

1. Related Demo Board and library to assist users to quickly evaluate and import Holtek RF IC series.
2. RF shield room and perfect RF equipment, such as network analyzer, RF signal generator and RF signal analyzer, etc., which can help users do RF matching and provide BOM.
3. Assist users to pass different international RF regulations and certification requirements.
4. Assist users to select Part No. and provide PCB layout inspection and suggestions, etc
5. Provide or assist users to develop fixtures for users production lines, facilitate production and testing at the user factory end, and then allow users to release RF products with the least investment and the shortest time.

BESTCOMM

Sub-1GHz Transmitter Series

Features

The Holtek Sub-1GHz transmitter series is a low cost Sub-1GHz OOK/FSK transmitter for wireless applications in the 315MHz, 433MHz, 868MHz and 915MHz frequency bands. It is a highly integrated and low cost unidirectional transmitter solution that only requires a crystal, a few external capacitors and a few output matching components to form a complete RF solution.

The series consists of a highly integrated fractional-N Synthesizer and a Class-E Power Amplifier (PA). As it adopts a fractional-N synthesizer, the users can potentially design their transmitters to operate at a wider frequency range. A class-E PA can deliver up to +13dBm output power. With proper setting through an external MCU, the transmitter series can support OOK and FSK modulation with symbol rate of up to 25ksps and data rate of up to 50kbps, respectively.

The following figure shows this series product lineup. The users can select the preliminary device according to the following table.

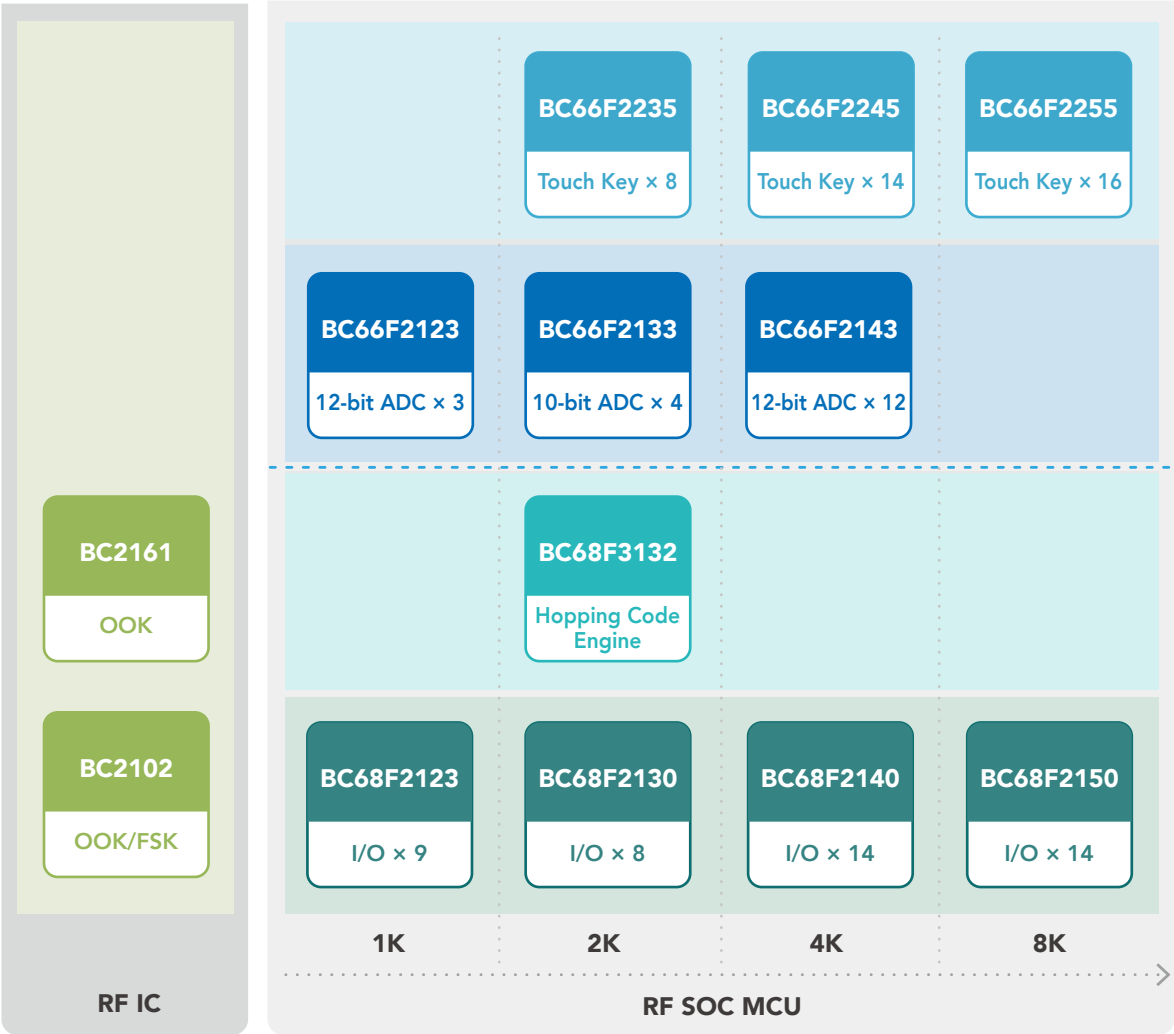


Figure 1. Sub-1GHz Transmitter Series Lineup

Applications

- Car door remote controls
- Electric rolling door remote controls
- Ceiling fan/fan remote controls
- Home safety warning and wireless doorbells

Sub-1GHz RF Tx Selection Table

Sub-1GHz Transmitter Flash MCU

Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	IAP	I/O	Timer	Band	OOK/ FSK	OOK Symbol Rate	Output Power	Package
BC68F2123	8MHz	2.2V~ 3.6V	1K×14	64×8	32×8	2	—	9	10-bit STM×1 10-bit PTM×1	315/433/ 868/915MHz	√	0.5~25ksps	0/5/10/13 dBm	16NSOP-EP
BC68F2130	16MHz	2.0V~ 3.6V	2K×16	256×8	—	8	√	8	10-bit CTM×1 10-bit PTM×1	315/433/ 868/915MHz	√	0.5~25ksps	0/10/13 dBm	16NSOP-EP 16QFN
BC68F2140	16MHz	2.0V~ 3.6V	4K×16	256×8	—	8	√	14	10-bit CTM×1 10-bit PTM×1	315/433/ 868/915MHz	√	0.5~25ksps	0/10/13 dBm	24SSOP-EP 24QFN
BC68F2150	16MHz	2.0V~ 3.6V	8K×16	256×8	—	8	√	14	10-bit CTM×1 10-bit PTM×1	315/433/ 868/915MHz	√	0.5~25ksps	0/10/13 dBm	24SSOP-EP 24QFN

Sub-1GHz Transmitter A/D Flash MCU

Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	IAP	I/O	Timer	ADC	SCOM/ SSEG	Band	OOK/ FSK	OOK Symbol Rate	Output Power	Package
BC66F2123	8MHz	2.2V~ 3.6V	1K×14	64×8	32×8	2	—	9	10-bit STM×1 10-bit PTM×1	12-bit ×3	—	315/433/ 868/915MHz	√	0.5~25ksps	0/5/10/13 dBm	16NSOP-EP
BC66F2133	8MHz	2.2V~ 3.6V	2K×14	64×8	32×14	4	—	9	8-bit×1	10-bit ×4	—	315/433/ 868/915MHz	√	0.5~25ksps	0/5/10/13 dBm	16NSOP-EP
BC66F2143	16MHz	2.2V~ 3.6V	4K×16	256×8	128×8	8	√	22	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	(SCOM/ SSEG)×18 SSEG×4	315/433/ 868/915MHz	√	0.5~25ksps	0/5/10/13 dBm	32QFN

Sub-1GHz Transmitter Hopping Code Flash MCU

Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	I/O	Timer	Band	OOK/ FSK	OOK Symbol Rate	Output Power	Package
BC68F3132	12MHz	2.2V~ 3.6V	2K×15	128×8	64×8	6	9	10-bit CTM×2	315/433/868/915MHz	√	0.5~25ksps	0/5/10/13 dBm	16NSOP-EP 16QFN

Sub-1GHz Transmitter Touch Flash MCU

Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Stack	IAP	I/O	Timer	ADC	Band	OOK/ FSK	Touch key	Output Power	Package
BC66F2235	8MHz	2.0V~ 3.6V	2K×16	352×8	8	√	8	10-bit CTM×2 10-bit PTM×1	12-bit×1	315/433/868/915MHz	√	8	0/10/13dBm	16NSOP-EP
BC66F2245	8MHz	2.0V~ 3.6V	4K×16	352×8	8	√	15	10-bit CTM×2 10-bit PTM×1	12-bit×4	315/433/868/915MHz	√	14	0/10/13dBm	24SSOP-EP
BC66F2255	8MHz	2.0V~ 3.6V	8K×16	352×8	8	√	23	10-bit CTM×2 10-bit PTM×1	12-bit×4	315/433/868/915MHz	√	16	0/10/13dBm	32QFN

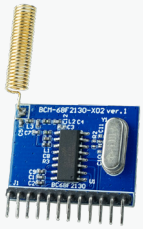
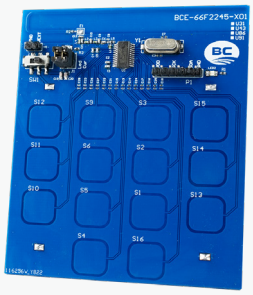
Sub-1GHz Transmitter IC

Part No.	VDD	Band	Modulation	OOK Symbol Rate	FSK Data Rate	Output Power	Oscillator	Package
BC2102	2.2V~3.6V	315/433/868/915MHz	OOK/FSK	0.5~25ksps	0.5~50kbps	0/5/10/13dBm	16MHz	8SOP-EP

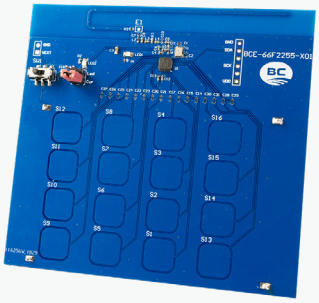
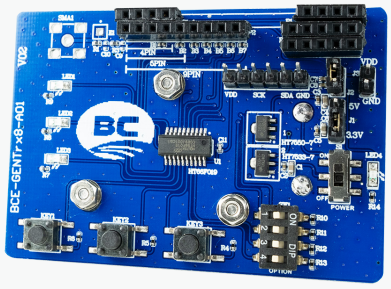
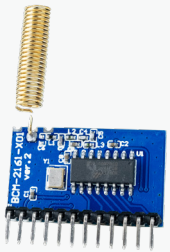
Sub-1GHz Transmitter IC with Encoder

Part No.	VDD	Band	Modulation	OOK Symbol Rate	Output Power	Oscillator	Package
BC2161	2.2V~3.6V	315/433/868/915MHz	OOK	1.5~24ksps	0/5/10/13dBm	16MHz	8SOP-EP 16NSOP-EP/QFN

Development Board

Supported MCU/IC	Module	Development Board
BC68F21x0	 BCM-68F21x0-X02 More BC68F2140 / BC68F2150 Contact Us	 Evaluation Board for RF Transmitter Modules BCE-GENTX-X01 More
BC68F3132	 BM31C321x-1 OOK Modulation More FSK Modulation More	 RF Transmitter Development Board BCE-GENTX-001 OOK Modulation More FSK Modulation More
BC66F2235	—	 BC66F2235 Development Board BCE-66F2235-X01 Contact Us
BC66F2245	—	 BC66F2245 Development Board BCE-66F2245-X01 Contact Us

Development Board

Supported MCU/IC	Module	Development Board
BC66F2255	—	 BC66F2255 Development Board BCE-66F2255-X01 Contact Us
BC2102	 BCM-2102-X10 Contact Us	 RF Receiver Development Board BCE-GENTrx8-A01 More
BC2161	 BCM-2161-X01 More	 RF Transmitter Simple Development Board BCE-GENTX-X02 Contact Us

Sub-1GHz Receiver Series

Features

The Holtek Sub-1GHz receiver series uses a fully-integrated, low-IF receiver with an automatic gain control (AGC) and a fully-integrated OOK/FSK demodulator. The synthesizer is formed by an integrated VCO and a fractional-N PLL to support 315MHz, 433MHz, 868MHz and 915MHz frequency bands.

The RF receiver series only requires a crystal and a minimum number of passive components to implement an RF receiver. With this high level of functional integration, these series devices provide excellent solutions for low power wireless applications.

An agile RSSI threshold detection mechanism can further alleviate the impact of interference on RF reception. The devices also support a non-continuous RX mode, where the on/off RX mode function can be controlled by an MCU to achieve a lower than average power consumption using duty RX mode operation.

The following figure shows this series product lineup. The users can select the preliminary device according to the following table.

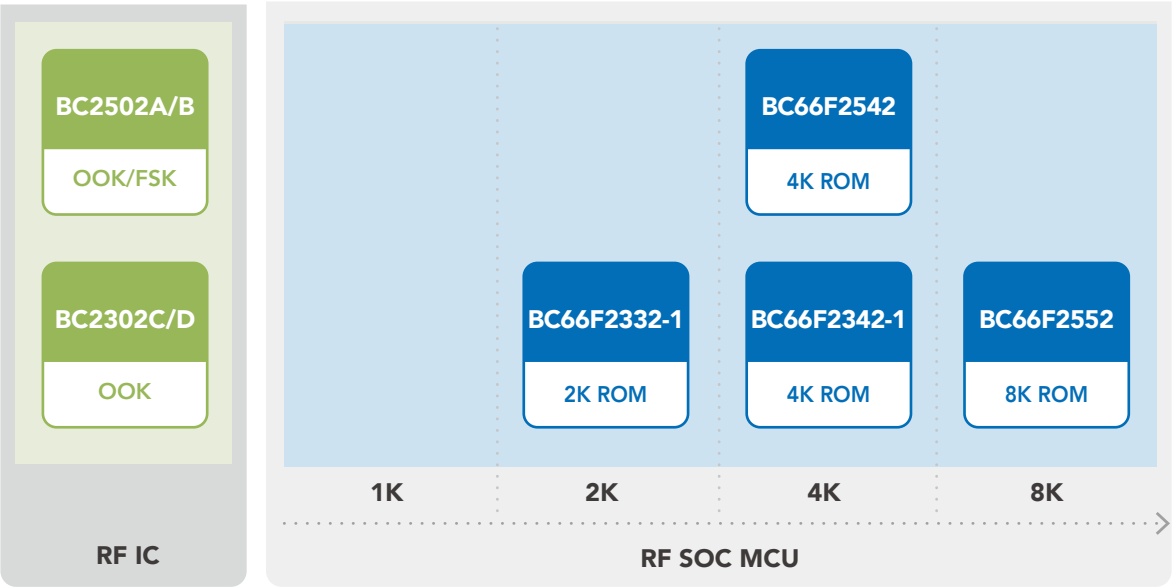
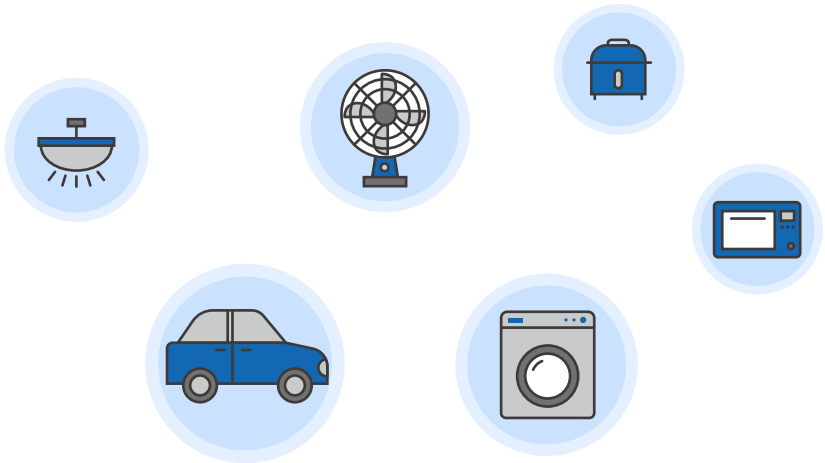


Figure 2. Sub-1 GHZ Receiver Series Lineup

Applications

- Wireless ceiling lights/fans
- Keyless entry systems
- Smart home appliances
- Car anti-theft systems



Sub-1GHz RF Rx Selection Table

Sub-1GHz Receiver Flash MCU

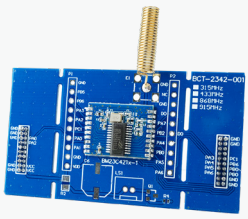
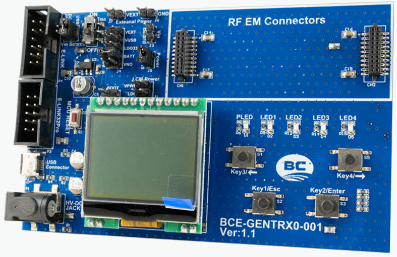
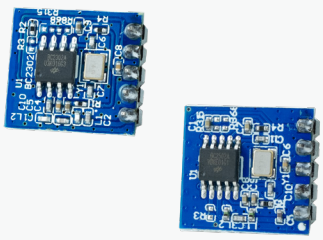
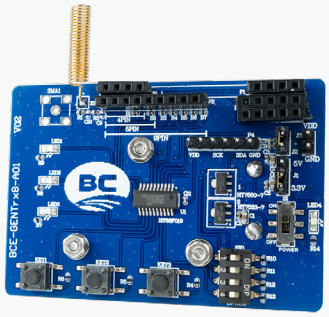
Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	I/O	Timer	ADC	Band	Demod.	Symbol Rate	Sensitivity	Interface	Package
BC66F2332-1	8MHz	2.4V~5.5V	2K×14	64×8	32×8	4	8	10-bit STM×1	12-bit ×4	315/433/868/915MHz	OOK	20ksps (Max.)	-110dBm @10ksps	—	16NSOP-EP
BC66F2342-1	8MHz	2.4V~5.5V	4K×15	128×8	32×15	6	13	10-bit STM×1 10-bit PTM×1	10-bit ×6	315/433/868/915MHz	OOK	20ksps (Max.)	-110dBm @10ksps	—	24SSOP-EP
BC66F2542*	16MHz	2.4V~5.5V	4K×16	256×8	128×8	8	26	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	315/433/868/915MHz	OOK FSK	40ksps (Max.)	-110dBm @10ksps	UART×1 SPI/I²C×1	46QFN
BC66F2552*	16MHz	2.4V~5.5V	8K×16	512×8	128×8	8	26	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	315/433/868/915MHz	OOK FSK	40ksps (Max.)	-110dBm @10ksps	UART×1 SPI/I²C×1	46QFN

* Under development, available in 4Q, 2023.

Sub-1GHz Receiver IC

Part No.	VDD	Band	Demod.	OOK Symbol Rate	FSK Symbol Rate	Current Consumption	Sensitivity	Package
BC2302C	2.4V~5.5V	315/433MHz	OOK	0.5~40ksps	—	4.0mA@433MHz	-110dBm@10ksps	8SOP-EP
BC2302D		315/433/868/915MHz				5.5mA@868MHz		
BC2502A	2.4V~5.5V	315/433MHz	OOK/FSK	0.5~40ksps	1~50ksps	4.5mA@433MHz	-110dBm@10ksps	10SOP-EP
BC2502B		315/433/868/915MHz				5.8mA@868MHz		

Development Board

Supported MCU/IC	Module	Development Board
BC66F2332-1	 BM2302-64-2 More	 BC66F2332-1 Development Board DEV-BC66F2332-1 More
BC66F2342-1	 BM23C421x-1 More	 Generic RF Module Development Board with LCM (no MCU) BCE-GENTrx0-001 More
BC2302x BC2502x	 BM2302-6x-2 or BM2502-6x-1 Contact Us	 RF Receiver Development Board BCE-GENTrx8-A01 More

Sub-1GHz Transceiver Series

Features

The Holtek Sub-1GHz transceiver series is a high performance and low cost CMOS RF FSK/GFSK transceiver for wireless applications in the 315MHz, 433MHz, 470MHz, 868MHz and 915MHz ISM (Industrial, Scientific and Medical) frequency bands. It incorporates a highly integrated sub-1GHz transceiver and a baseband modem with a programmable data rate from 2kbps to 250kbps. Data handling features include 64-byte TX/RX FIFO, packet handling, CRC generation, Forward Error Correction, data whitening and Manchester encoding.

The transceiver series is designed to achieve a high performance sub-1GHz transceiver. It includes a low-noise low-IF receiver and a Class-E Power Amplifier up to +20dBm output power. A fully integrated Fractional-N synthesizer can support a wide frequency range with a fine resolution. The loop filter is integrared to on-chip to minimize the external components.

The transceiver series supports short strobe commands to reduce the loading of the host MCU while maintaining wireless communication link. Additional link layer features like RSSI for channel assessment, auto-acknowledgement and auto-resend, WOT and WOR, etc., facilitate microcontroller based ISM bands wireless link applications.

The following figure shows this series product lineup. The users can select the preliminary device according to the following table.

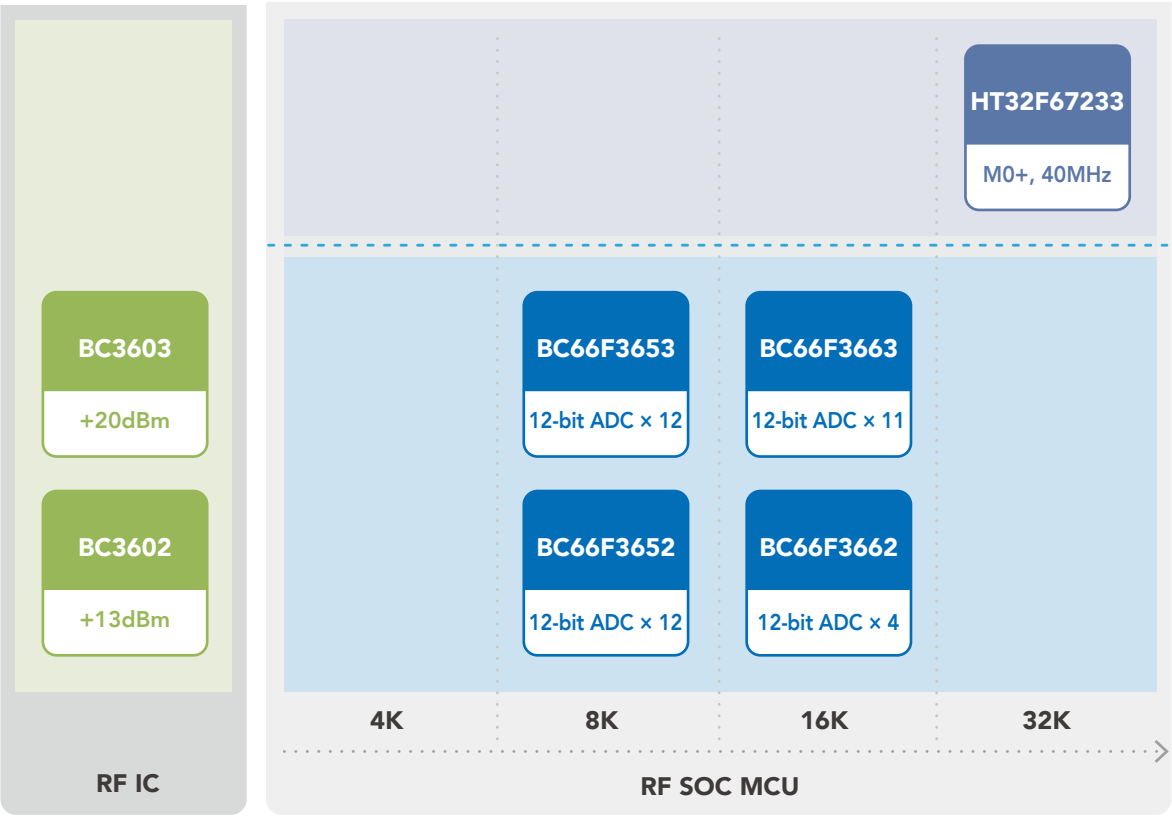
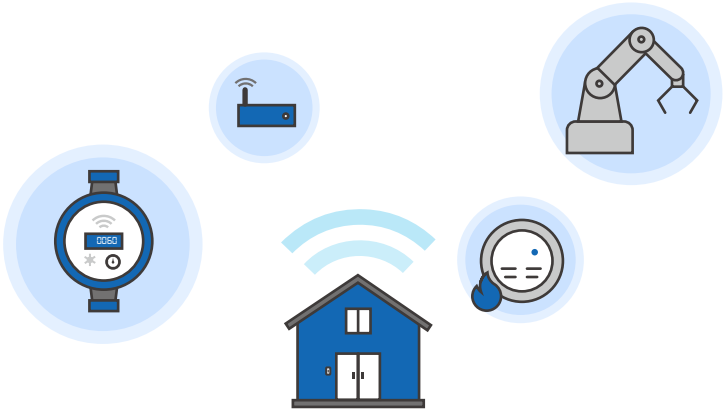


Figure 3. Sub-1GHz Transceiver Series Lineup

Applications

- Remote meter reading
- Wireless sensor network
- Home and building automation
- Wireless alarm and security systems
- Industrial monitoring



Sub-1GHz RF TRx Selection Table

Sub-1GHz Transceiver Cortex-M0+ 32-Bit MCU

Part No.	Max. Freq.	VDD	Flash	SRAM	ADC	Timers#	Band	Data Rate	Max. Output Power	Rx Current Consumption	Interface	I/O	Package
HT32F67233	40MHz	2.0V~3.6V	32KB	4KB	1Msps 12-bit×8	BFTM×1 SCTM×2 GPTM×1	315/433/470/868/915MHz	OOK: 0.5~20kbps GFSK: 2~250kbps	20dBm	5.8mA@433MHz 6.8mA@868MHz	USART×1 UART×1 SPI×1, I²C×1	21	46QFN

Note: # BFTM: Basic Function Timer, SCTM: Single-Channel Timer, GPTM: General-Purpose Timer.

Sub-1GHz Transceiver Flash MCU

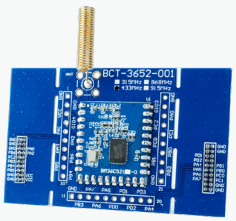
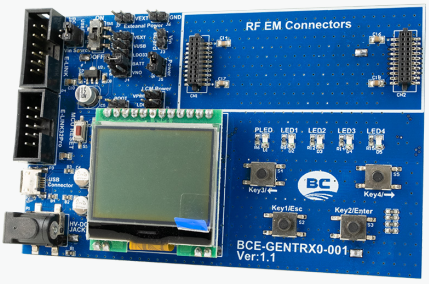
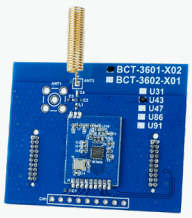
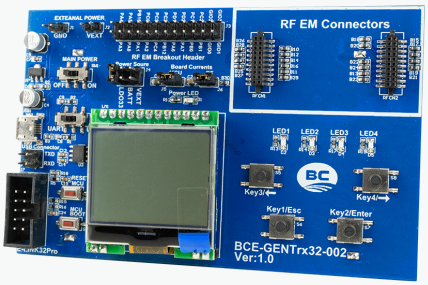
Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	I/O	Timer	ADC	Band	OOK/GFSK	Max. Output Power	Rx Current Consumption	Interface	Package
BC66F3652	16MHz	1.9V~3.6V	8K×16	512×8	128×8	8	22	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	315/433/470/868/915MHz	GFSK	13dBm	4.2mA@433MHz 5.5mA@868MHz	UART×1 SPI/I²C×1	46QFN
BC66F3662	16MHz	1.9V~3.6V	16K×16	2048×8	1024×8	16	22	10-bit PTM×2 16-bit STM×2	12-bit ×4	315/433/470/868/915MHz	GFSK	13dBm	4.2mA@433MHz 5.5mA@868MHz	UART×2 SPI/I²C×1	46QFN
BC66F3653*	16MHz	1.8V~3.6V	8K×16	512×8	128×8	8	22	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	315/433/470/868/915MHz	√	20dBm	5.8mA@433MHz 6.8mA@868MHz	UART×1 SPI/I²C×1	46QFN
BC66F3663*	16MHz	1.8V~3.6V	16K×16	1024×8	1024×8	12	24	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×11	315/433/470/868/915MHz	√	20dBm	5.8mA@433MHz 6.8mA@868MHz	UART×1 SPI/I²C×1	46QFN

* Under development, available in 4Q, 2023.

Sub-1GHz Transceiver IC

Part No.	VDD	Band	OOK/GFSK	Low Current	External Inductor	Data Rate	Max. Output Power	Sensitivity	Package
BC3602	1.9V~3.6V	315/433/470/868/915MHz	GFSK	√	√	2~250kbps	13dBm	-120dBm@2kbps	24QFN
BC3603	1.8V~3.6V	315/433/470/868/915MHz	√	√	—	OOK: 0.5~20kbps GFSK: 2~250kbps	20dBm	-120dBm@2kbps	16QFN

Development Board

Supported MCU/IC	Module	Development Board
BC66F36x2	 BCT-3652-001 with BM36C521x-0 More	 Generic RF Module Development Board with LCM (no MCU) BCE-GENTrx0-001 More
BC360x	 BCT-3601-x02 with BM3601-0x-1 More	 Generic RF Module Development Board with LCM (HT32 MCU) BCE-GENTrx32-002 More

2.4GHz Series

Features

The Holtek 2.4GHz series is a high performance and low cost fully-integrated CMOS RF GFSK transceiver for wireless applications in the 2.4GHz frequency band.

A fully integrated Fractional-N synthesizer can support a wide frequency range with a fine resolution. The transceiver series also includes an integrated baseband modem with programmable data rates of 125kbps, 250kbps and 500kbps, data handling and packet handling functions. It supports a Middle Sleep mode for fast XO start-up with 30μA bleeding current.

The series devices support short strobe commands to reduce the loading of the host MCU while maintaining wireless communication link. Additional link layer features like RSSI for channel assessment, auto-acknowledgement, auto-resend and 6 pipes star network topology, facilitate microcontroller based ISM bands wireless link applications.

The following figure shows this series product lineup. The users can select the preliminary device according to the following table.

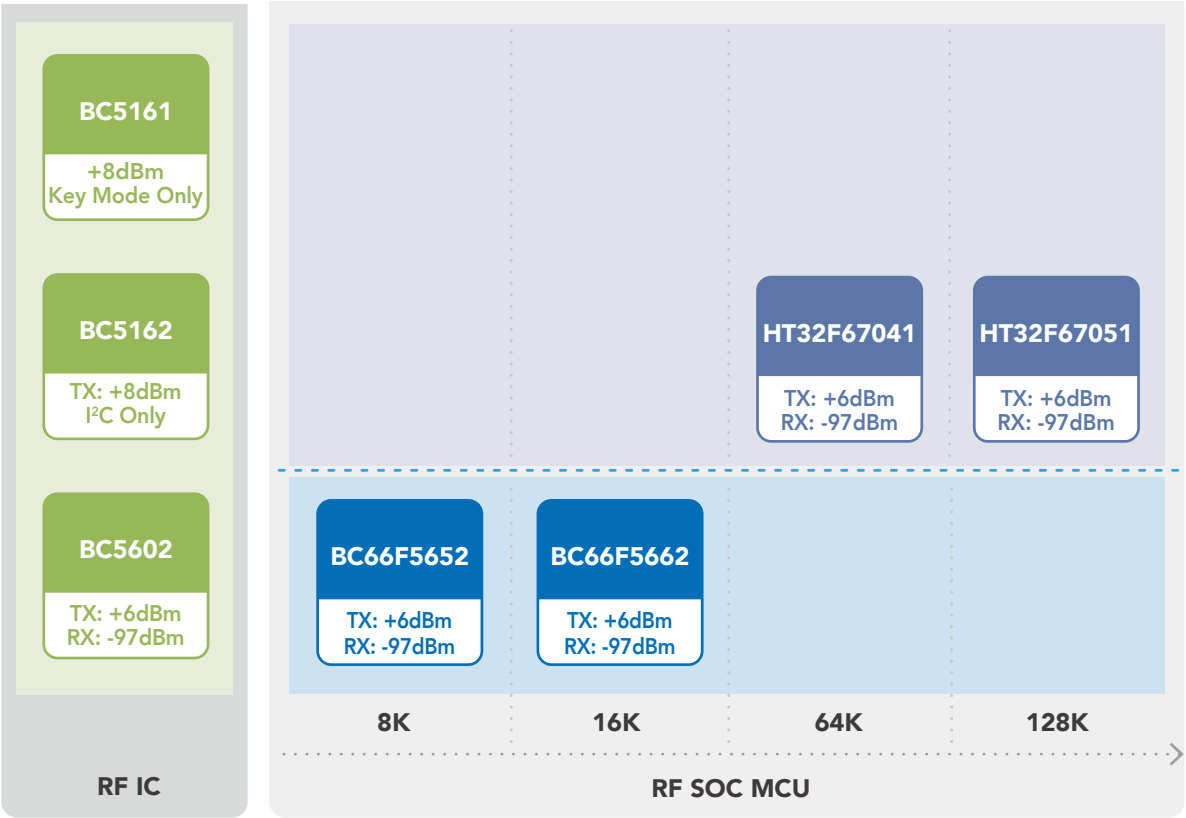


Figure 4. 2.4GHz Series Lineup

Applications

- Game controllers
- RF remote control for consumer electronics
- Home and building automation
- Wireless alarm and security systems
- Industrial monitoring
- Wireless toys
- Asset tracking systems

2.4GHz RF Selection Table

2.4GHz Transceiver Cortex-M0+ 32-Bit MCU

Part No.	Max. Freq.	VDD	Flash	SRAM	PDMA	ADC	Timers#	RTC	Frequency	Data Rate	Output Power	Sensitivity	Interface	Others	I/O	Package
HT32F67041*	60MHz	2.0V~3.6V	64KB	8KB	6CH	1Msps 12-bit×16	BFTM×2 SCTM×4 GPTM×1	√	2402~2480 MHz	125/250 kbps	-10~+6 dBm	-97dBm @250kbps	UART×2 SPI×2 I²C×2	AES CRC	16	32QFN
HT32F67051*			128KB												29	46QFN

* Under development, available in 2Q, 2023.
Note: # BFTM: Basic Function Timer, SCTM: Single-Channel Timer, GPTM: General-Purpose Timer, MCTM: Motor Control Timer.

2.4GHz Transceiver Flash MCU

Part No.	Max. Freq.	VDD	Program Memory	Data Memory	Data EEPROM	Stack	I/O	Timer	ADC	Frequency	Data Rate	Output Power	Sensitivity	Interface	Package
BC66F5652	16MHz	1.9V~3.6V	8K×16	512×8	128×8	8	22	10-bit PTM×1 16-bit CTM×1 16-bit STM×1	12-bit ×12	2402~2480 MHz	125/250/500kbps	-10~+6 dBm	-97dBm @250Kbps	UART×1 SPI/I²C×1	28SSOP 46QFN
BC66F5662			16K×16	2048×8	1024×8	16	24	10-bit PTM×2 16-bit STM×3	12-bit ×4					UART×2 SPI/I²C×1	46QFN

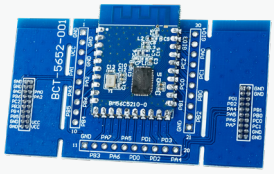
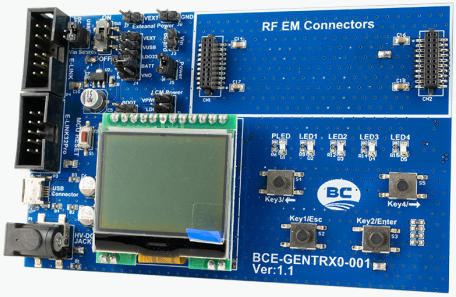
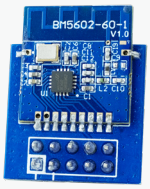
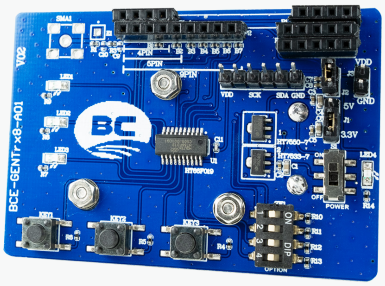
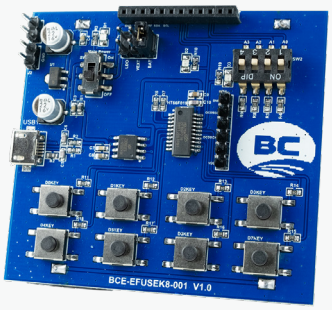
2.4GHz Transceiver IC

Part No.	VDD	Frequency	Modulation	Data Rate	Output Power	Sensitivity	Oscillator	Interface	Package
BC5602	1.9V~3.6V	2402~2480MHz	GFSK	125/250/500kbps	-10~+6dBm	-97dBm@250kbps	16MHz	SPI	16QFN

2.4GHz Transmitter IC with Encoder

Part No.	VDD	Frequency	Modulation	Data Rate	Output Power	Oscillator	Key Mode	Interface	Package
BC5161	2.0V~3.6V	2402~2480MHz	GFSK	125/250/500kbps	-10~+8dBm	32MHz	√	—	8SOP-EP, 16QFN
BC5162							—	I²C	8SOP-EP

Development Board

Supported MCU/IC	Module	Development Board
BC66F5652	 BCT-5652-001 with BM56C5210-0 More	 Generic RF Module Development Board with LCM (no MCU) BCE-GENTrx0-001 More
BC5602	 BCT-5602-001 with BM5602-60-1 More	 RF Receiver Development Board BCE-GENTrx8-A01 More
BC5161	 BCT-5161-G01 with BCM-5161-G01 Contact Us	 RF Transmitter Development Board BCE-GENTX-X02 Contact Us
BC5162	 BCT-5162-G01 with BCM-5162-G01 More	 Transmitter with Encoder IC Development Board BCE-EFUSEK8-001 More

BLE Series

Features

The Holtek BLE series has been certified by BQB, the Bluetooth Qualification Body, and complies with the Bluetooth Low Energy specification (BLE 5.2). It supports various BLE services. It is convenient to use and forms a single device which can provide complete BLE applications which have low profile requirements. The series is an excellent choice for a wide range of low-power Bluetooth MCU applications. It is suitable for a wide range of applications and reduces system costs.

The following figure shows this series product lineup. The users can select the preliminary device according to the following table.

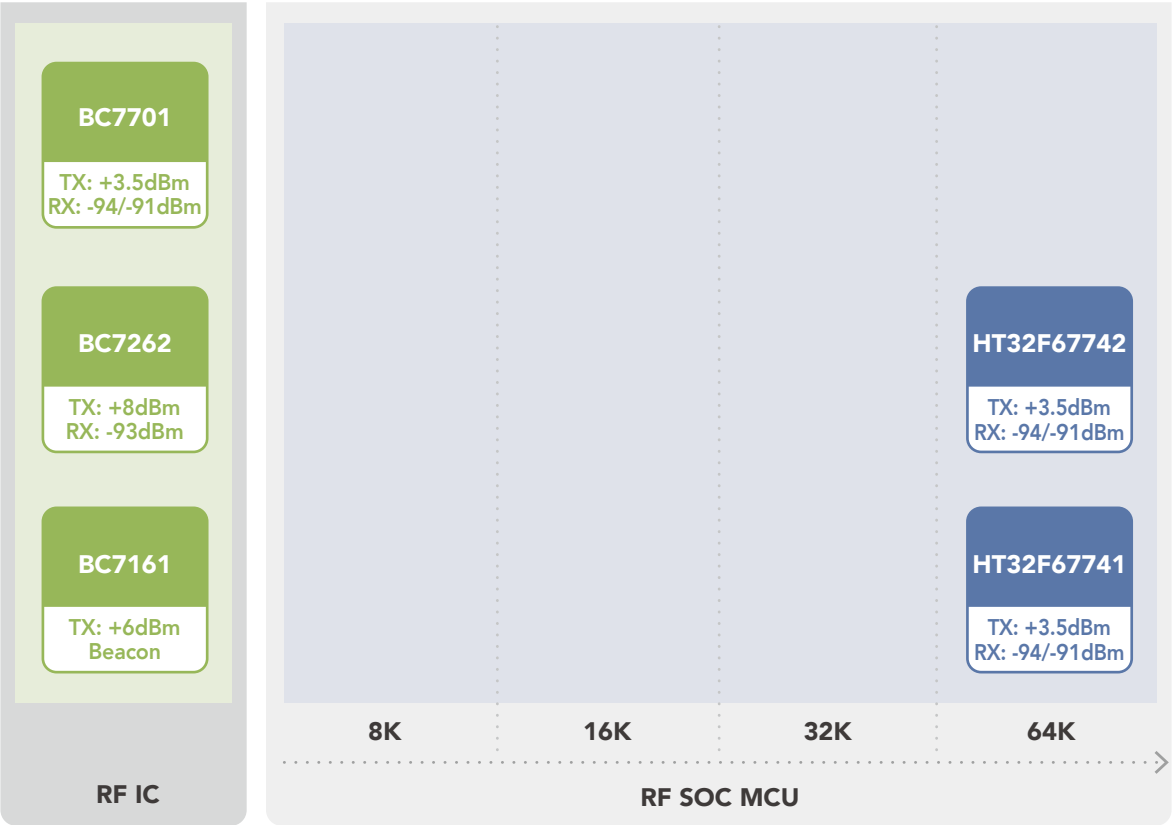
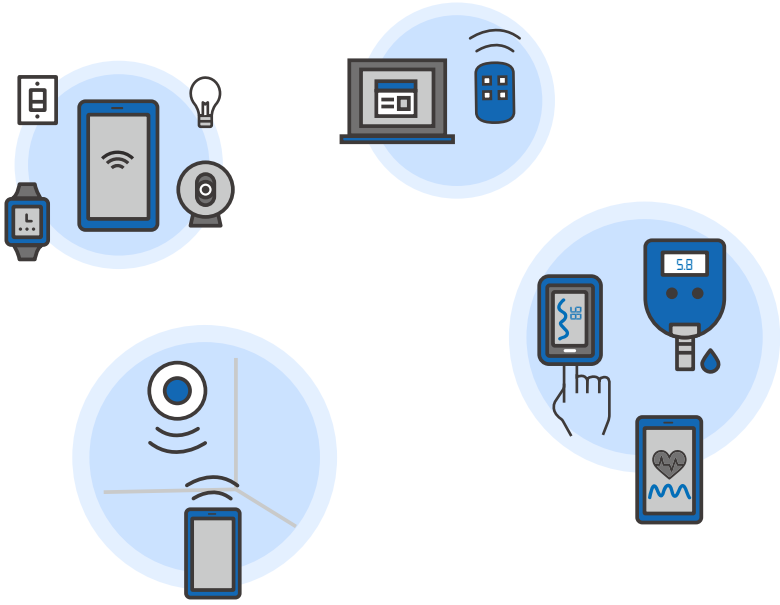


Figure 5. BLE Beacon Series Lineup

Applications

- Phone controllers
- Indoor positioning systems
- Personal health monitoring systems
- Asset tracking systems
- Individual product beacon controllers



BLE Beacon Selection Table

Cortex-M0+ 32-Bit BLE MCU

Part No.	Max. Freq.	VDD	Flash	SRAM	ADC	Timers*1	BQB	Data Rate	Output Power	Sensitivity	SCI*2	USB*3	LCD	Interface	Others	I/O	Package
HT32F67741	40MHz	2.0V~3.6V	64KB	8KB	1Msps 12-bit×6	BFTM×2, SCTM×4 GPTM×1, MCTM×1	5.2	1/2Mbps	+3.5dBm	-94/-91dBm	—	—	—	USART×1 UART×2 SPI×2, I²C×2	CRC×1 TRNG×1	25 38	46QFN 64LQFP-EP
HT32F67742*	60MHz	2.0V~3.6V	64KB	8KB	1Msps 12-bit×4	BFTM×2, PWM×3 GPTM×1	5.2	1/2Mbps	+3.5dBm	-94/-91dBm	√	√	29×4~25×8	USART×1 UART×2 SPI×2, I²C×2	CRC DIV TRNG	49	80LQFP-EP

* Under development, available in 3Q, 2023.
Note: 1. BFTM: Basic Function Timer, SCTM: Single-Channel Timer, GPTM: General-Purpose Timer, MCTM: Motor Control Timer.
2. SCI: ISO7816-3 Smart Card Interface.
3. USB 2.0 Full Speed device.

BLE Controller IC

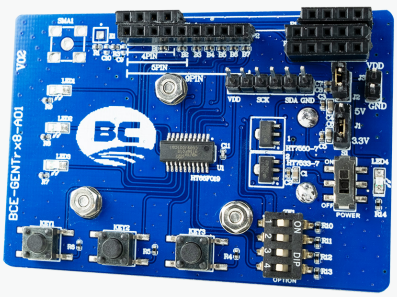
Part No.	VDD	BQB	Data Rate	Output Power	Sensitivity	Interface	Package
BC7701	2.0V~3.6V	5.2	1/2 Mbps	+3.5dBm	-94/-91dBm	UART	32QFN

BLE Beacon IC

Part No.	VDD	Frequency	Beacon Packet Handler	Output Power	Sensitivity	Oscillator	BQB	Interface	Package
BC7161	2.0V~3.6V	2402/2426/2480MHz	Transmitter	-10~+8dBm	—	32MHz	5.0	I²C×1	8SOP-EP, 10MSOP-EP
BC7262*	1.9V~3.6V	2402/2426/2480MHz	Transceiver	-10~+7dBm	-93dBm	32MHz	5.2	I²C×1	10SOP-EP

* Under development, available in 2Q, 2023.

Development Board

Supported MCU/IC	Module	Development Board
BC7161	 BCT-7161-001 with BM7161-00-1 More	 RF Receiver Development Board BCE-GENTrx8-A01 More

Development Tools

Online Debug Adaptor

The e-Link is an online debug adaptor for Holtek's new generation of OCDS architecture Flash MCUs. Together with the HT-IDE3000 software it allows users to program and debug programs on their target boards.

- Hardware： e-Link
- Software： HT-IDE3000

Best Modules Online Shop

Writer

The e-WriterPro can be used not only as a programming tool for all of Holtek's OTP and Flash devices during the development stage but can also be used for small to medium volume production purposes.

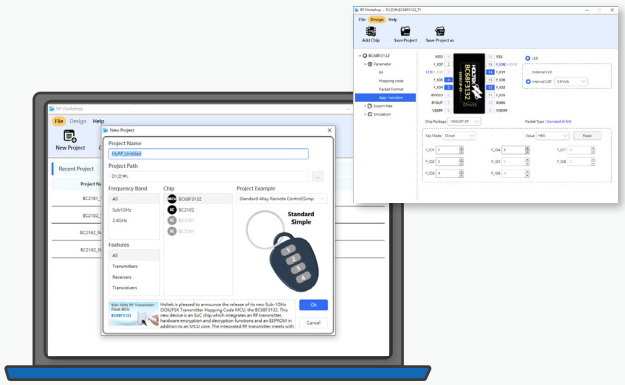
- Hardware： e-WriterPro
- Software： HOPE3000

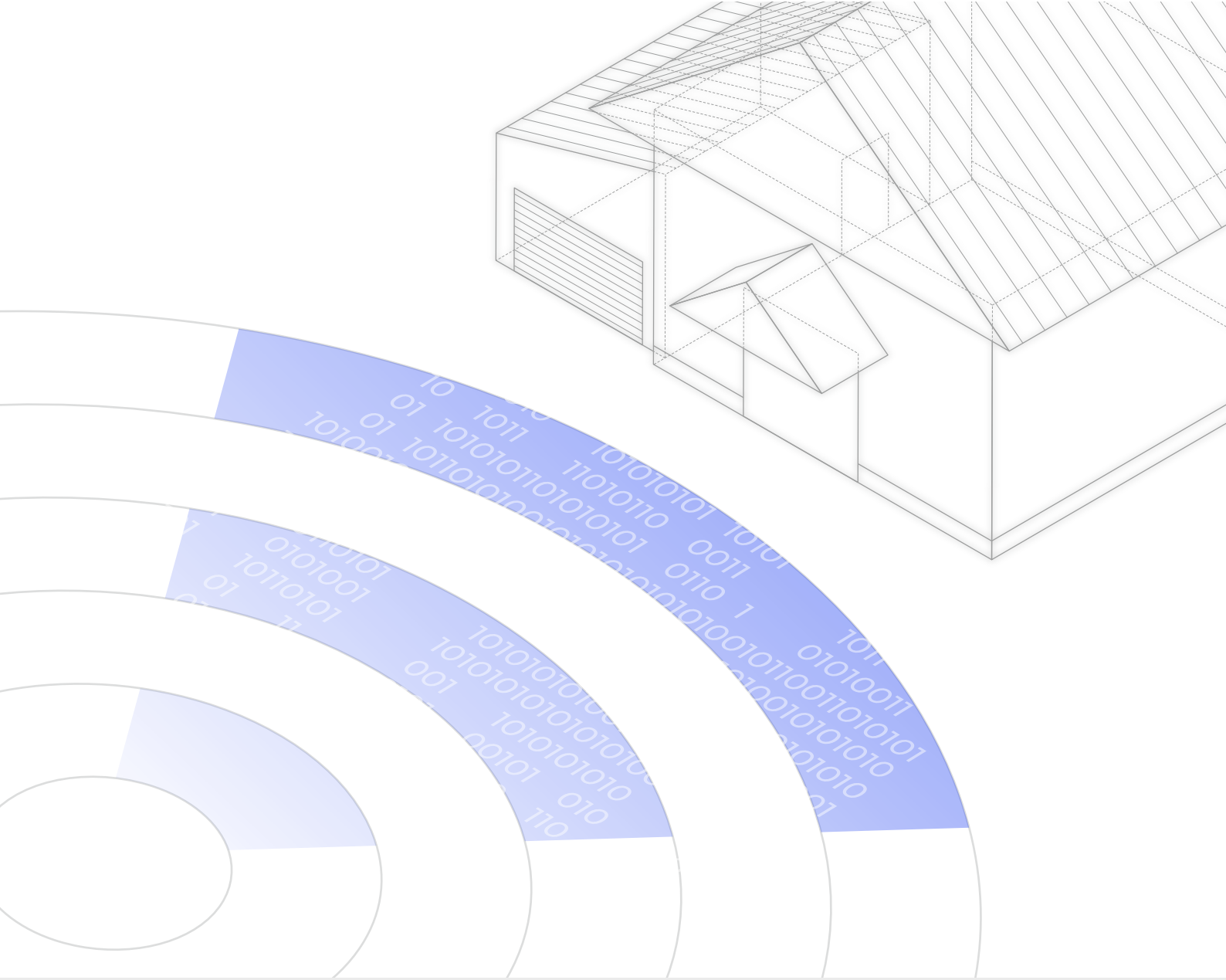
Best Modules Online Shop

Workshop

The RF Workshop is designed for the RF chip products developed by Holtek. The user can set the operating frequency, modulation parameters, packet format, use of pins and status indicators through the UI interface options, and output the quantity production files and program files (HT-IDE3000 project files), users can use this development platform to accelerate hardware and program development.

- Hardware： varies by MCU part number
- Software： RF Workshop





HOLTEK

Holtek Semiconductor Inc.

Sharing Success Through Excellence

Holtek Semiconductor Inc. (Headquarters)
No.3, Creation Rd. II, Science park, Hsinchu 300, Taiwan
Tel: 886-3-5631999
Fax: 886-3-5631189

Holtek Semiconductor Inc. (Taipei Sales Office)
4F-2, No. 3-2, YuanQu St., Nankang Software Park,
Taipei 115, Taiwan
Tel: 886-2-2655-7070
Fax: 886-2-2655-7373
Fax: 886-2-2655-7383 (International sales hotline)

Holtek Semiconductor (India) Pvt.Ltd.
The Oriental Towers No. 461, 2nd Floor, 4th Sector,
17th Cross Rd, HSR Layout, Bengaluru, Karnataka 560102
Email: Indiasales@holtek.com.tw

Holtek Semiconductor (USA), Inc.
(North America Sales Office)
19 Hammond, Suite 513, Irvine, CA 92618
Tel: 1-949-273-8988

Holtek Semiconductor (China) Inc.
Building No. 10, Xinzhu Court, (No. 1 Headquarters),
4 Xinzhu Road, Songshan Lake, Dongguan, China 523808
Tel: 86-769-3893-1999

Holtek Official Website

Best Modules Online Shop

Jun. 2023_V001