

## Features

- ROHM's wireless audio link LSIs (FM transmitter) enable the smallest FM stereo broadcasts
- Compatible with billions of FM radio receivers around the world
- Removes noise contained in digital audio sources, resulting in hi-fi sound
- Built-in high-performance digital transmitter ensures stable transmission of broadcast waves
- A PLL circuit, stereo modulator, FM transmitter, and the like are all consolidated into a single package
- Conforms to the global standard GE Zenith (Pilot Tone) system

## Hi-fi stereo sound that rivals that of a conventional broadcast station

### Application Examples

TVs, DVD players, Set top boxes, Portable music players, Wireless headphones, Wireless speakers, PCs, PC mice, PC peripheral equipment, Cordless phones, Coffee makers, Microwaves, Ovens, Mobile phones, Digital cameras, Gaming consoles, Battery chargers, Calculators, Personal data assistants, Clocks/watches, Illumination equipment, Student desks, Dressers, Bathtubs, Vending machines, ATMs, On-board music systems, Ticket vending machines, and more.

### Specifications

Part No.	BH1425KN BH1425GWL	BH1414K	BH1415F BH1415FV	BH1418FV <b>BH1418KN</b>	BH1416F	BH1417F BH1417FV
Power Supply Voltage	2.7V to 4.0V	4.5V to 5.5V	4.0V to 6.0V	2.7V to 4.0V	4.0V to 6.0V	
BUS Interface Voltage	1.7V to 4.0V	Same as the power supply voltage			Same as the power supply voltage	
Operating Temperature Range	-20°C to +85°C	-40°C to +85°C			-40°C to +85°C	
Package	VQFN28 (BH1425KN) UCSP50L3 ( BH1425GWL)	QFP44	SOP22 (BH1415F) SSOP-B24 (BH1415FV)	SSOP-B24 (BH1418FV) VQFN28 (BH1418KN)	SOP22	SOP22 (BH1417F) SSOP-B24 ( BH1417FV)
Transmission Frequencies	76MH z to 108MH z step 100kHz	76MH z to 108MH z step 100kHz			76.8MH z to 78.0MH z 88.0MH z to 89.2MH z step 200kHz	77.7MH z to 88.9MH z 106.7MH z to 107.9MH z step 200kHz
Transmission Output Level	-12dBm to 0dBm	-7dBm			-7dBm	
System Clock Frequencies	12M,13M,16M, 19M,19.2M, 19.8M,24M, 26MHzOther	7.6MH z			7.6MH z	

Audio input attenuator	Yes	Yes	-	-
Pre-emphasis	Yes	Yes		Yes
Audio limiter	Can be turned ON/OFF	Can be turned ON/OFF	ON only	ON only
Digital audio source input compatible filters	Yes	Yes	-	-
Monaural operation	Yes	Yes		-
Audio mute	Yes	Yes		-
FM stereo modulator	Yes	Yes		Yes
FM transmitter	Yes	Yes		Yes
Transmission frequency control system	I <sup>2</sup> C BUS*	Three-line serial BUS		Parallel control
Transmission output level control	Yes	-		-
Characteristics adjustment function via BUS interface	Yes	-		-
Zero current power-down mode	Yes	-		-