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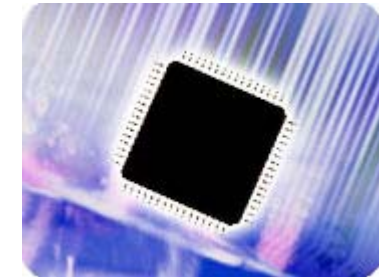
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Ultra Small Headphone

USB Host Audio Decoder ICs

ROHM's USB host audio decoder ICs integrate a USB 2.0 host, SD memory card controller, AAC decoder, WMA decoder, MP3 decoder, Audio DAC amp, and a system controller all on a single chip, allowing easy playback of music stored in USB flash memory using an audio player. They can be easily added to virtually any audio device (i.e. CD player, mini-component stereo, portable player, car stereo) for greater functionality.

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Specification	Part No.	Package	Function
MP3 Format			
USB MP3	NEW **BU9428KV**	VQFP64	32MB~2TB / CONT ROLLER / FAT16 FAT32 / TAG / RANDOM ▶ / REPEAT ▶ / Analog LINE / I²S SPDIF / I²C / SOUND EFFECT
MP3 Format + SD Memory Card			
USB SD MP3	**BU9435KV**	VQFP64	32MB~2TB / CONT ROLLER / FAT16 FAT32 / TAG / RANDOM ▶ / REPEAT ▶ / Analog LINE / I²S SPDIF / I²C / SOUND EFFECT
WMA / MP3 Format + SD Memory Card			
USB SD MP3 WMA	NEW **BU9437AKV**	VQFP64	32MB~2TB / CONT ROLLER / FAT16 FAT32 / TAG / RANDOM ▶ / REPEAT RESUME ▶ ▶ / Analog LINE / I²S SPDIF / I²C / SOUND EFFECT
AAC / WMA / MP3 Format + SD Memory Card			
USB SD MP3 WMA AAC	NEW **BU9438KV**	VQFP64	32MB~2TB / CONT ROLLER / FAT16 FAT32 / TAG / RANDOM ▶ FF/FR ▶ REPEAT ▶ RESUME ▶ / Analog LINE / I²S SPDIF / I²C / SOUND EFFECT

Discrete Semiconductors

Opto Electronics

Inquiries concerning our products

USB Host Audio Decoder ICs

Part No.	Operating voltage (V) Core	Operating voltage (V) I/O	USB	SD	Serial interface	Display information	MP3	WMA	AAC	Audio output Analog	Audio output Digital	Package	RoHS
NEW BU9428KV	1.40 to 1.60	3.0 to 3.6	USB2.0 Full Speed	—	I^{2}C BUS	Folder number File number Playing time Folder name File name TAG (Artist Alubum Title)	MPEG1,2,2.5 LAYER1,2,3	—	—	Line	I^{2}S SPDIF	VQFP64	Yes
BU9435KV	1.40 to 1.60	3.0 to 3.6	USB2.0 Full Speed	MMC SD miniSD microSD SDHC	I^{2}C BUS		MPEG1,2,2.5 LAYER1,2,3	—	—	Line	I^{2}S SPDIF	VQFP64	Yes
NEW BU9437AKV	—	3.0 to 3.6	USB2.0 Full Speed	MMC SD miniSD microSD SDHC	I^{2}C BUS		MPEG1,2,2.5 LAYER1,2,3	WMA9Standard	—	Line	I^{2}S SPDIF	VQFP64	Yes
NEW BU9438KV	—	3.0 to 3.6	USB2.0 Full Speed	MMC SD miniSD microSD SDHC	I^{2}C BUS		MPEG1,2,2.5 LAYER1,2,3	WMA9Standard	MPEG4AAC-LC	Line	I^{2}S SPDIF	VQFP64	Yes

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ECO Devices
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