

VOICE ENHANCEMENT AND ALWAYS-ON – DBM FAMILY

	DBMD2 (Part Number D2A3X)	DBMD4 (Part Number D4A1A)	DBMD4S (Part Number D4S1A)
Function			
Always-on voice activation	✓	✓	✓
Low power consumption	✓	Extreme low	Extreme low
Noise reduction	✓	✓	✓
Maximized ASR	✓	✓	✓
AEC	✓	✓	✓
Supported voice bandwidth	NB, WB		
Sensor hub	Limited		✓
Segment			
Mobile phone	✓	✓	✓
Wearable devices	✓	✓	✓
BT headset	✓	✓	✓
Tablets	✓	✓	✓
Toys	✓	✓	✓
DSP			
Processor	CEVA-TeakLite-III 32 bits	CEVA-TeakLite-III 32 bits	CEVA-TeakLite-III 32 bits
Program memory	RAM	RAM	RAM
I/O			
UART	✓	✓	✓
PCM/ I2S	4	✓	✓
I2C Slave	✓	✓	✓
I2C Master	By SW		✓
SPI	✓	✓	✓
SLIMbus	✓	✓	✓
AFE			
Audio In	Digital and analog mic	Digital and analog mic	Digital and analog mic
Audio Out	Digital	Digital	Digital
Package			
Size	2.4 x 2.4 mm	2.1 x 1.8 mm	2.1 x 1.8 mm

DSP Group®, Inc. (NASDAQ: DSPG) is a leading global provider of wireless chipset solutions for converged communications. Delivering semiconductor system solutions with software and hardware reference designs, DSP Group enables OEMs/ODMs, consumer electronics (CE) manufacturers and service providers to cost-effectively develop new revenue-generating products with fast time to market.

At the forefront of semiconductor innovation and operational excellence for over two decades, DSP Group provides a broad portfolio of wireless chipsets integrating DECT/CAT-iq, ULE, Wi-Fi, PSTN, HDClear™, video and VoIP technologies.

DSP Group enables converged voice, audio, video and data connectivity across diverse mobile, consumer and enterprise products – from mobile devices, connected multimedia screens, and home automation & security to cordless phones, VoIP systems, and home gateways. Leveraging industry-leading experience and expertise, DSP Group partners with CE manufacturers and service providers to shape the future of converged communications at home, office and on the go.

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