

Book 0 / Page 1 / Register 66: WCLK2_GPIO6 Pin Register - 0x00 / 0x01 / 0x42 (B0_P1_R66) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	GPIO6_FUNC	R/W	0 0000	Pin WCLK2_GPIO6 function is 0 0000: Disabled (Input and Output buffers powered down) 0 0001: Input mode 0 0010: Reserved 0 0011: Output = General Purpose Output level set by bit D6 0 0100: Output = General Purpose Output level set by B0_P1_R88 & B0_P1_R87 0 0101: Output = Reserved 0 0110: Output = CLKOUT Output 0 0111: Output = INT1 Interrupt Output 0 1000: Output = INT2 Interrupt Output 0 1001: Output = INT3 Interrupt Output 0 1010: Output = INT4 Interrupt Output 0 1011: Reserved 0 1100: Output = ASI1_WCLK_OUT 0 1101: Output = ASI1_BCLK_OUT 0 1110: Output = ASI1_WCLK_ADC_OUT 0 1111: Output = ASI1_BCLK_ADC_OUT 1 0000: Output = ASI1_DOUT 1 0001: Output = ASI2_WCLK_OUT 1 0010: Output = ASI2_BCLK_OUT 1 0011: Output = ASI2_WCLK_ADC_OUT 1 0100: Output = ASI2_BCLK_ADC_OUT 1 0101: Output = ASI2_DOUT 1 0110: Output = ASIM_WCLK_OUT 1 0111: Output = ASIM_BCLK_OUT 1 1000: Output = ASIM_DOUT 1 1001: Reserved ... 1 1111: Reserved

Book 0 / Page 1 / Register 67: DOUT2_GPIO7 Pin Register - 0x00 / 0x01 / 0x43 (B0_P1_R67)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6	GPIO7_OVAL	R/W	0	GPIO7 general purpose output value is 0: Low(0) 1: High(1)
D5	RESERVED	R/W	0	Reserved. Write only reset values.

Book 0 / Page 1 / Register 67: DOUT2_GPIO7 Pin Register - 0x00 / 0x01 / 0x43 (B0_P1_R67) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	GPIO7_FUNC	R/W	0 0000	Pin DOUT2_GPIO7 function is 0 0000: Disabled (Input and Output buffers powered down) 0 0001: Input mode 0 0010: Reserved 0 0011: Output = General Purpose Output level set by bit D6 0 0100: Output = General Purpose Output level set by B0_P1_R88 & B0_P1_R87 0 0101: Output = Reserved 0 0110: Output = CLKOUT Output 0 0111: Output = INT1 Interrupt Output 0 1000: Output = INT2 Interrupt Output 0 1001: Output = INT3 Interrupt Output 0 1010: Output = INT4 Interrupt Output 0 1011: Reserved 0 1100: Output = ASI1_WCLK_OUT 0 1101: Output = ASI1_BCLK_OUT 0 1110: Output = ASI1_WCLK_ADC_OUT 0 1111: Output = ASI1_BCLK_ADC_OUT 1 0000: Output = ASI1_DOUT 1 0001: Output = ASI2_WCLK_OUT 1 0010: Output = ASI2_BCLK_OUT 1 0011: Output = ASI2_WCLK_ADC_OUT 1 0100: Output = ASI2_BCLK_ADC_OUT 1 0101: Output = ASI2_DOUT 1 0110: Output = ASIM_WCLK_OUT 1 0111: Output = ASIM_BCLK_OUT 1 1000: Output = ASIM_DOUT 1 1001: Reserved ... 1 1111: Reserved

Book 0 / Page 1 / Register 68: DIN2_GPIO8 Pin Register - 0x00 / 0x01 / 0x44 (B0_P1_R68)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6	GPIO8_OVAL	R/W	0	GPIO8 general purpose output value is 0: Low(0) 1: High(1)
D5	RESERVED	R/W	0	Reserved. Write only reset values.

Book 0 / Page 1 / Register 68: DIN2_GPIO8 Pin Register - 0x00 / 0x01 / 0x44 (B0_P1_R68) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	GPIO8_FUNC	R/W	0 0000	Pin DIN2_GPIO8 function is 0 0000: Disabled (Input and Output buffers powered down) 0 0001: Input mode 0 0010: Reserved 0 0011: Output = General Purpose Output level set by bit D6 0 0100: Output = General Purpose Output level set by B0_P1_R88 & B0_P1_R87 0 0101: Output = Reserved 0 0110: Output = CLKOUT Output 0 0111: Output = INT1 Interrupt Output 0 1000: Output = INT2 Interrupt Output 0 1001: Output = INT3 Interrupt Output 0 1010: Output = INT4 Interrupt Output 0 1011: Reserved 0 1100: Output = ASI1_WCLK_OUT 0 1101: Output = ASI1_BCLK_OUT 0 1110: Output = ASI1_WCLK_ADC_OUT 0 1111: Output = ASI1_BCLK_ADC_OUT 1 0000: Output = ASI1_DOUT 1 0001: Output = ASI2_WCLK_OUT 1 0010: Output = ASI2_BCLK_OUT 1 0011: Output = ASI2_WCLK_ADC_OUT 1 0100: Output = ASI2_BCLK_ADC_OUT 1 0101: Output = ASI2_DOUT 1 0110: Output = ASIM_WCLK_OUT 1 0111: Output = ASIM_BCLK_OUT 1 1000: Output = ASIM_DOUT 1 1001: Reserved ... 1 1111: Reserved

Book 0 / Page 1 / Register 69: ICC_GPIO9 Pin(ICC_CLK) Register - 0x00 / 0x01 / 0x45 (B0_P1_R69)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6	GPIO9_OVAL	R/W	0	GPIO9 general purpose output value is 0: Low(0) 1: High(1)
D5	RESERVED	R/W	0	Reserved. Write only reset values.

**Book 0 / Page 1 / Register 69: ICC_GPIO9 Pin(ICC_CLK) Register - 0x00 / 0x01 / 0x45
(B0_P1_R69) (continued)**

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	GPIO9_FUNC	R/W	0 0000	Pin ICC_GPIO9 function is 0 0000: Disabled (Input and Output buffers powered down) 0 0001: Input mode 0 0010: Reserved 0 0011: Output = General Purpose Output level set by bit D6 0 0100: Output = General Purpose Output level set by B0_P1_R88 & B0_P1_R87 0 0101: Output = Reserved 0 0110: Output = CLKOUT Output 0 0111: Output = INT1 Interrupt Output 0 1000: Output = INT2 Interrupt Output 0 1001: Output = INT3 Interrupt Output 0 1010: Output = INT4 Interrupt Output 0 1011: Reserved 0 1100: Output = ASI1_WCLK_OUT 0 1101: Output = ASI1_BCLK_OUT 0 1110: Output = ASI1_WCLK_ADC_OUT 0 1111: Output = ASI1_BCLK_ADC_OUT 1 0000: Output = ASI1_DOUT 1 0001: Output = ASI2_WCLK_OUT 1 0010: Output = ASI2_BCLK_OUT 1 0011: Output = ASI2_WCLK_ADC_OUT 1 0100: Output = ASI2_BCLK_ADC_OUT 1 0101: Output = ASI2_DOUT 1 0110: Output = ASIM_WCLK_OUT 1 0111: Output = ASIM_BCLK_OUT 1 1000: Output = ASIM_DOUT 1 1001: Reserved ... 1 1111: Reserved

Book 0 / Page 1 / Register 70: ICC_GPIO10 Pin Register - 0x00 / 0x01 / 0x46 (B0_P1_R70)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6	GPIO10_OUT_VAL	R/W	0	GPIO10 General Purpose Output Value 0: Low(0) 1: High(1)
D5	RESERVED	R/W	0	Reserved. Write only reset values.

Book 0 / Page 1 / Register 70: ICC_GPIO10 Pin Register - 0x00 / 0x01 / 0x46 (B0_P1_R70) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	GPIO10_FUNC	R/W	0 0000	GPIO10 Function 0 0000: Disabled (Input and Output buffers powered down) 0 0001: Input mode 0 0010: Reserved 0 0011: Output = General Purpose Output level set by bit D6 0 0100: Output = General Purpose Output level set by B0_P1_R88 & B0_P1_R87 0 0101: Output = Reserved 0 0110: Output = CLKOUT Output 0 0111: Output = INT1 Interrupt Output 0 1000: Output = INT2 Interrupt Output 0 1001: Output = INT3 Interrupt Output 0 1010: Output = INT4 Interrupt Output 0 1011: Reserved 0 1100: Output = ASI1_WCLK_OUT 0 1101: Output = ASI1_BCLK_OUT 0 1110: Output = ASI1_WCLK_ADC_OUT 0 1111: Output = ASI1_BCLK_ADC_OUT 1 0000: Output = ASI1_DOUT 1 0001: Output = ASI2_WCLK_OUT 1 0010: Output = ASI2_BCLK_OUT 1 0011: Output = ASI2_WCLK_ADC_OUT 1 0100: Output = ASI2_BCLK_ADC_OUT 1 0101: Output = ASI2_DOUT 1 0110: Output = ASIM_WCLK_OUT 1 0111: Output = ASIM_BCLK_OUT 1 1000: Output = ASIM_DOUT 1 1001: Reserved ... 1 1111: Reserved

Book 0 / Page 1 / Register 71-76: Reserved Registers - 0x00 / 0x01 / 0x47-0x4C (B0_P1_R71-76)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 0 / Page 1 / Register 77: GPI Pins Register - 0x00 / 0x01 / 0x4D (B0_P1_R77)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D4	GPI3_FUNC	R/W	00	Pin ICC_GPI3 is 00: Disabled (Input powered down) 01: In Input mode 10: Reserved 11: Reserved
D3-D2	GPI2_FUNC	R/W	01	Pin MCLK_GPI2 is 00: Disabled (Input powered down) 01: Input mode 10: Reserved 11: Reserved
D1-D0	GPI1_FUNC	R/W	01	Pin BCLK1_GPI1 00: Disabled (Input powered down) 01: Input mode 10: Reserved 11: Reserved

Book 0 / Page 1 / Register 78: Reserved Register - 0x00 / 0x01 / 0x4E (B0_P1_R78)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 0 / Page 1 / Register 79: GPIO HIZ CTRL1 Register - 0x00 / 0x01 / 0x4F (B0_P1_R79)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	GPIO2_HIZ	R/W	0	GPIO2 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM
D3-D1	RESERVED	R/W	000	Reserved. Write only reset values.
D0	GPIO1_HIZ	R/W	0	GPIO1 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM

Book 0 / Page 1 / Register 80: GPIO HIZ CTRL2 Register - 0x00 / 0x01 / 0x50 (B0_P1_R80)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	GPIO4_HIZ	R/W	0	GPIO4 output 000: Drives both LO/HI. 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM
D3-D1	RESERVED	R/W	000	Reserved. Write only reset values.
D0	GPIO3_HIZ	R/W	0	GPIO3 utput 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM

Book 0 / Page 1 / Register 81: GPIO HIZ CTRL3 Register - 0x00 / 0x01 / 0x51 (B0_P1_R81)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	GPIO6_HIZ	R/W	0	GPIO6 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM
D3-D1	RESERVED	R/W	000	Reserved. Write only reset values.
D0	GPIO5_HIZ	R/W	0	GPIO5 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM

Book 0 / Page 1 / Register 82: GPIO HIZ CTRL4 Register - 0x00 / 0x01 / 0x52 (B0_P1_R82)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	GPIO8_HIZ	R/W	0	GPIO8 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM
D3-D1	RESERVED	R/W	000	Reserved. Write only reset values.
D0	GPIO7_HIZ	R/W	0	GPIO7 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM

Book 0 / Page 1 / Register 83: GPIO HIZ CTRL3 Register - 0x00 / 0x01 / 0x53 (B0_P1_R83)

BIT		READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	GPIO10_HIZ	R/W	0	GPIO10 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM
D3-D1	RESERVED	R/W	000	Reserved. Write only reset values.
D0	GPIO9_HIZ	R/W	0	GPIO9 output 000: Drives both LO/HI 001: Drives both LO/HI with buskeeper(weak pull-up/down). For use with outputs that my be tri-stated such as TDM

Book 0 / Page 1 / Register 84-86: Reserved Registers - 0x00 / 0x01 / 0x54-0x56 (B0_P1_R84-86)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved.

Book 0 / Page 1 / Register 87: GPIO Pin 1 Register - 0x00 / 0x01 / 0x57 (B0_P1_R87)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D1	RESERVED	R/W	0000 000	Reserved. Write only reset values.
D0	GPO_BO_MODE	R/W	0	0: Use R88,R89 to directly drive output on respective pins 1: Use DSP port to drive outputs on respective pins

Book 0 / Page 1 / Register 88: GPIO Pin 2 Register - 0x00 / 0x01 / 0x58 (B0_P1_R88)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	GPIO8_BOV	R/W	0	GPIO8 general purpose output value is 0: Low(0) 1: High(1)
D6	GPIO7_BOV	R/W	0	GPIO7 general purpose output value is 0: Low(0) 1: High(1)
D5	GPIO6_BOV	R/W	0	GPIO6 general purpose output value is 0: Low(0) 1: High(1)
D4	GPIO5_BOV	R/W	0	GPIO5 general purpose output value is 0: Low(0) 1: High(1)
D3	GPIO4_BOV	R/W	0	GPIO4 general purpose output value is 0: Low(0) 1: High(1)
D2	GPIO3_BOV	R/W	0	GPIO3 General Purpose Output Value 0: Low(0) 1: High(1)
D1	GPIO2_BOV	R/W	0	GPIO2 General Purpose Output Valuet 0: Low(0) 1: High(1)
D0	GPIO1_BOV	R/W	0	GPIO1 General Purpose Output Value 0: Low(0) 1: High(1)

Book 0 / Page 1 / Register 89: GPIO Pin 3 Register - 0x00 / 0x01 / 0x59 (B0_P1_R89)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D2	RESERVED	R/W	0000 00	Reserved. Write only reset values.
D1	GPIO10_BOV	R/W	0	GPIO10 general purpose output value is 0: Low(0) 1: High(1)
D0	GPIO9_BOV	R/W	0	GPIO9 general purpose output value is 0: Low(0) 1: High(1)

Book 0 / Page 1 / Register 90-107: Reserved Registers - 0x00 / 0x01 / 0x5A-0x6B (B0_P1_R84-86)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved. Write only reset values.

Book 0 / Page 1 / Register 108: Interrupt Control 1 Register - 0x00 / 0x01 / 0x6C (B0_P1_R108)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D4	INT_OVER_I	R/W	000	Speaker over-current flag is 000: not used in the generation of pin interrupt 001: used in the generation of INT1 interrupt 010: used in the generation of INT2 interrupt 011: used in the generation of INT3 interrupt 100: used in the generation of INT4 interrupt 101-111: Reserved
D3	RESERVED	R/W	0	Reserved. Write only reset values.
D2-D0	INT_OVER_V	R/W	000	Speaker over-voltage flag is 000: not used in the generation of pin interrupt 001: used in the generation of INT1 interrupt 010: used in the generation of INT2 interrupt 011: used in the generation of INT3 interrupt 100: used in the generation of INT4 interrupt 101-111: Reserved

Book 0 / Page 1 / Register 109: Interrupt Control 2 Register - 0x00 / 0x01 / 0x6D (B0_P1_R109)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D4	INT_CLK_ERR1	R/W	000	Clock error detect 1 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved
D3	RESERVED	R/W	0	Reserved. Write only reset values.
D2-D0	INT_OVER_TEMP	R/W	0	Over-temperature flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 interrupt 010: used in the generation of INT2 interrupt 011: used in the generation of INT3 interrupt 100: used in the generation of INT4 interrupt 101-111: Reserved

Book 0 / Page 1 / Register 110: Interrupt Control 3 Register - 0x00 / 0x01 / 0x6E (B0_P1_R110)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D4	INT_BROWNOUT	R/W	000	Brownout flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved
D3	RESERVED	R/W	0	Reserved. Write only reset values.
D2-D0	INT_CLK_ERR2	R/W	000	Clock error detect 2 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: is used in the generation of INT4 Interrupt 101-111: Reserved

Book 0 / Page 1 / Register 111: Interrupt Control 4 Register - 0x00 / 0x01 / 0x6F (B0_P1_R111)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D4	INT_SAR_DONE	R/W	000	SAR complete flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved
D3-D0		R	xxxx	Reserved. Write only reset values.

Book 0 / Page 1 / Register 112: Interrupt Control 5 Register - 0x00 / 0x01 / 0x70 (B0_P1_R112)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D4	INT_DSP1	R/W	000	DSP output interrupt 1 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved
D3	RESERVED	R/W	0	Reserved. Write only reset values.
D2-D0	INT_DSP2	R/W	000	DSP output interrupt 2 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved

Book 0 / Page 1 / Register 113: Interrupt Control 6 Register - 0x00 / 0x01 / 0x71 (B0_P1_R113)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.

Book 0 / Page 1 / Register 113: Interrupt Control 6 Register - 0x00 / 0x01 / 0x71 (B0_P1_R113) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D6-D4	INT_DSP3	R/W	000	DSP output interrupt 3 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved
D3	RESERVED	R/W	0	Reserved. Write only reset values.
D2-D0	INT_DSP4	R/W	000	DSP output interrupt 4 flag is 000: not used in the generation of pin Interrupt 001: used in the generation of INT1 Interrupt 010: used in the generation of INT2 Interrupt 011: used in the generation of INT3 Interrupt 100: used in the generation of INT4 Interrupt 101-111: Reserved

Book 0 / Page 1 / Register 114-127: Reserved Register - 0x00 / 0x01 / 0x72-0x7F (B0_P1_R127)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

13.4 Book 0 Page 2
Book 0 / Page 2 / Register 0: Page Select Register - 0x00 / 0x02 / 0x00 (B0_P0_R0)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	PAGE	R/W	0000 0000	Page Select Register 0-255: Selects the Register Page for next read or write command. Refer Table for details.

Book 0 / Page 2 / Register 1-5: Reserved Register - 0x00 / 0x02 / 0x01-0x05 (B0_P1_R1-5)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 0 / Page 2 / Register 6: Ramp Generator Frequency Register - 0x00 / 0x02 / 0x06 (B0_P2_R6)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D5	RESERVED	R/W	000	Reserved. Write only reset values.
D4	RAMP_FREQ	R/W	0	Ramp Generator Frequency 00: 384kHz ramp_sel_res_freq = 0), Use this for Fs of 48ksps and its multiples 01: 352.8kHz, Use this for Fs of 44.1ksps and its multiples
D3-D0	RESERVED	R/W	0000	Reserved. Write only reset values.

Book 0 / Page 2 / Register 7-23: Reserved Register - 0x00 / 0x02 / 0x07-0x17 (B0_P1_R7-23)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 0 / Page 2 / Register 24: Inrush Optimization 1 Register - 0x00 / 0x02 / 0x18 (B0_P2_R24)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D3	INRUSH1	R/W	101	Inrush Current Optimization 1 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved
D2-D0	INRUSH2	R/W	101	Inrush Current Optimization 2 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved

Book 0 / Page 2 / Register 25: Inrush Optimization 2 Register - 0x00 / 0x02 / 0x19 (B0_P2_R25)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D3	INRUSH3	R/W	101	Inrush Current Optimization 3 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved
D2-D0	INRUSH4	R/W	101	Inrush Current Optimization 4 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved

Book 0 / Page 2 / Register 26: Inrush Optimization 3 Register - 0x00 / 0x02 / 0x1A (B0_P2_R25)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D3	INRUSH5	R/W	101	Inrush Current Optimization 5 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved
D2-D0	INRUSH6	R/W	101	Inrush Current Optimization 6 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved

Book 0 / Page 2 / Register 27: Inrush Optimization 4 Register - 0x00 / 0x02 / 0x1B (B0_P2_R25)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D3	INRUSH7	R/W	101	Inrush Current Optimization 7 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved
D2-D0	INRUSH8	R/W	101	Inrush Current Optimization 8 000: Class-H operation inrush current optimization for boost 101 Not Recommended Other: Reserved

Book 0 / Page 2 / Register 28-127: Reserved Register - 0x00 / 0x02 / 0x1C-0x7F (B0_P1_R28-127)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

13.5 Book 100 Page 0

Book 100 / Page 0 / Register 0: Page Select Register - 0x64 / 0x00 / 0x00 (B100_P0_R0)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	PAGE	R/W	0000 0000	Page Select Register 0-255: Selects the Register Page for next read or write command. Refer Table for details.

Book 100 / Page 0 / Register 1: DAC Interpolation Register - 0x64 / 0x00 / 0x01 (B100_P0_R1)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	DAC_RATIO	R/W	0000 1000	DAC Interpolation ratio outside DSP is 0000 0000: 256 0000 0001: 1 0000 0001: 2 ... 1111 1110: 254 1111 1111: 255

Book 100 / Page 0 / Register 2: ADC interpolation Register - 0x64 / 0x00 / 0x01 (B100_P0_R1)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D0	ADC_RATIO	R/W	00 0000	ADC interpolation ratio outside DSP is 00 0000: 64 00 0001: 1 00 0001: 2 ... 10 0101: 37 10 0110: 38 (maximum ratio supported for Isense/Vsense) 10 0111: 39 (supported only for PDM audio input) 10 1000: 40 (supported only for PDM audio input) 10 1001: 41 (supported only for PDM audio input) 10 1010: 42 (supported only for PDM audio input) 10 1011: 43 (supported only for PDM audio input) 10 1100: 44 (supported only for PDM audio input) 10 1101: 45 (supported only for PDM audio input)

Book 100 / Page 0 / Register 3-6: Reserved Register - 0x64 / 0x00 / 0x03-0x06 (B100_P0_R3-6)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved.

Book 100 / Page 0 / Register 7: DSP Mute Register - 0x64 / 0x00 / 0x07 (B100_P0_R7)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D4	RESERVED	R/W	0000	Reserved. Write only reset values.
D3	PDM_MUTE	R/W	1	PDM soft mute is 0: un-mute 1: mute
D2	VSNS_MUTE	R/W	1	Vsense soft mute is 0: un-mute 1: mute
D1	ISNS_MUTE	R/W	1	Isense soft mute is 0: un-mute 1: mute

Book 100 / Page 0 / Register 7: DSP Mute Register - 0x64 / 0x00 / 0x07 (B100_P0_R7) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D0	SPK_MUTE	R/W	1	Class-D soft mute is 0: un-mute 1: mute

Book 100 / Page 0 / Register 8-15: Reserved Register - 0x64 / 0x00 / 0x08-0x0F (B100_P0_R8-15)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 100 / Page 0 / Register 16: Interrupt 1 DSP Register - 0x64 / 0x00 / 0x10 (B100_P0_R16)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	INT1_POL	R/W	0	ISR1 interrupt polarity is 0: Active High 1: Active Low
D6	INT1_TRG	R/W	0	ISR1 interrupt is 0: Level sensitive 1: Edge sensitive
D4-D0	INT1_PATH	R/W	00000	ISR1 interrupt input to DSP is 0 0000: disabled 0 0001: GPIO1 0 0010: GPIO2 0 0011: GPIO3 0 0100: GPIO4 0 0101: GPIO5 0 0110: GPIO6 0 0111: GPIO7 0 1000: GPIO8 0 1001: GPIO9 0 1010: GPIO10 0 1011: Reserved 0 1100: Reserved 0 1101: GPI1 0 1110: GPI2 0 1111: GPI3 others: Reserved

Book 100 / Page 0 / Register 17: Interrupt 2 DSP Register - 0x64 / 0x00 / 0x11 (B100_P0_R17)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	INT2_POL	R/W	0	ISR2 interrupt polarity is 0: Active high 1: Active low
D6	INT2_TRG	R/W	0	ISR2 interrupt is 0: Level sensitive 1: Edge sensitive

Book 100 / Page 0 / Register 17: Interrupt 2 DSP Register - 0x64 / 0x00 / 0x11 (B100_P0_R17) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	INT2_PATH	R/W	00000	ISR2 interrupt input to DSP is 0 0000: disabled 0 0001: GPIO1 0 0010: GPIO2 0 0011: GPIO3 0 0100: GPIO4 0 0101: GPIO5 0 0110: GPIO6 0 0111: GPIO7 0 1000: GPIO8 0 1001: GPIO9 0 1010: GPIO10 0 1011: Reserved 0 1100: Reserved 0 1101: GPI1 0 1110: GPI2 0 1111: GPI3 others: Reserved

Book 100 / Page 0 / Register 18: Condition 1 DSP Register - 0x64 / 0x00 / 0x12 (B100_P0_R18)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	COND1_POL	R/W	0	COND1 interrupt polarity is 0: Active high 1: Active low
D6	COND1_TRG	R/W	0	COND1 interrupt is 0: Level sensitive 1: Edge sensitive
D4-D0	COND1_PATH	R/W	00000	COND1 interrupt input to DSP is 0 0000: disabled 0 0001: GPIO1 0 0010: GPIO2 0 0011: GPIO3 0 0100: GPIO4 0 0101: GPIO5 0 0110: GPIO6 0 0111: GPIO7 0 1000: GPIO8 0 1001: GPIO9 0 1010: GPIO10 0 1011: Reserved 0 1100: Reserved 0 1101: GPI1 0 1110: GPI2 0 1111: GPI3 others: Reserved

Book 100/ Page 0 / Register 19: Condition 2 DSP Register - 0x64 / 0x00 / 0x13 (B100_P0_R19)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	COND2_POL	R/W	0	COND2 interrupt polarity is 0: Active High 1: Active Low
D6	COND2_TRG	R/W	0	COND2 interrupt is 0: Level Sensitive 1: Edge Sensitive

Book 100/ Page 0 / Register 19: Condition 2 DSP Register - 0x64 / 0x00 / 0x13 (B100_P0_R19) (continued)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	COND2_PATH	R/W	00000	COND2 Interrupt Input to DSP 0 0000: disabled 0 0001: GPIO1 0 0010: GPIO2 0 0011: GPIO3 0 0100: GPIO4 0 0101: GPIO5 0 0110: GPIO6 0 0111: GPIO7 0 1000: GPIO8 0 1001: GPIO9 0 1010: GPIO10 0 1011: Reserved 0 1100: Reserved 0 1101: GPI1 0 1110: GPI2 0 1111: GPI3 others: Reserved

Book 100 / Page 0 / Register 20: ISR and COND Control Register - 0x64 / 0x00 / 0x14 (B100_P0_R20)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	DSP_ISR3	R/W	0	ISR3 interrupt input to DSP is 0: Low 1: High
D6	DSP_ISR4	R/W	0	ISR4 interrupt input to DSP is 0: Low 1: High
D5-D4	RESERVED	R/W	00	Reserved. Write only reset values.
D3	DSP_COND3	R/W	0	COND3 interrupt input to DSP is 0: Low 1: High
D2	DSP_COND4			COND4 interrupt input to DSP is 0: Low 1: High
D1-D0	RESERVED	R/W	00	Reserved. Write only reset values.

Book 100 / Page 0/ Register 21: DSP Control Register - 0x64 / 0x00 / 0x15 (B100_P0_R21)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6	DSP_SPI_DLY	R/W	0	0: SPI read will have one frame (8-bit) delay while reading RAMs. 1: SPI read will always have one frame (8-bit) delay
D5	DSP_APAGE	R/W	0	Auto increment page for non-zero book is 0: Enable 1: Disable
D4-D0	RESERVED	R/W	0 0000	Reserved. Write only reset values.

Book 100 / Page 0 / Register 22-26: Reserved Register - 0x64 / 0x00 / 0x16-0x1A (B100_P0_R22-26)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 100 / Page 0 / Register 27:PLL CLKIN Divider Register - 0x64 / 0x00 / 0x1B (B100_P0_R27)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5-D0	PLL_PDIV	R/W	00 0001	PLL_CLKIN divider (generates input clock for PLL P-divider) is 00 0000: 64 00 0001: 1 00 0001: 2 ... 11 1110: 62 11 1111: 63

Book 100 / Page 0 / Register 28:PLL J-VAL Divider Register - 0x64 / 0x00 / 0x1C (B100_P0_R28)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	PLL_LOW	R/W	0	PLL low input frequency is 0: should be set when PLL CLKIN divider output is greater than 1MHz 1: should be set when PLL CLKIN divider output is less than 1MHz
D6-D0	PLL_JDIV	R/W	00 0100	PLL J multiplier is 00 0000: Reserved 00 0001: 1 00 0010: 2 ... 11 1110: 62 11 1111: 63

Book 100 / Page 0 / Register 29:PLL D-VAL Divider 2 Register - 0x64 / 0x00 / 0x1D (B100_P0_R29)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	0	Reserved. Write only reset values.
D6-D0	PLL_DVAL2	R/W	000 0000	PLL D Fractional Multiplier D(13:8)

Book 100 / Page 0 / Register 30:PLL D-VAL Divider 1 Register - 0x64 / 0x00 / 0x1E (B100_P0_R30)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	PLL_DVAL1	R/W	0000 0000	PLL D Fractional Multiplier D(7:0)

Book 100 / Page 0 / Register 31:DSP Clock Register - 0x64 / 0x00 / 0x1F (B100_P0_R31)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D6	RESERVED	R/W	00	Reserved. Write only reset values.
D5	DSP_CLK	R/W	0	DSP clock is generated from 0: output of N_VAL divider in B100_P0_R32 1: directly from PLL Clock
D4-D3	MDAC_CLK	R/W	00	MDAC and MADC is clock divider input is 00: NDIV_CLK (N-divider output) 01: MCLK_GPI2. This can be used only if MCLK is multiple of 8*64*Fs or 4*64*Fs(with 48-52% duty-cycle) 10: ICC_GPIO9. This can be used only if MCLK is multiple of 8*64*Fs or 4*64*Fs(with 48-52% duty-cycle) 11: Reserved
D2-D1	BOOST_CLK	R/W	00	Boost and Charge-pump divider input is 00: NDIV_CLK (N-divider output) 01: MCLK_GPI2. 10: ICC_GPIO9. 11: Reserved
D0	RESERVED	R/W	0	Reserved. Write only reset values.

Book 100 / Page 0 / Register 32: N-VAL Divider Register - 0x64 / 0x00 / 0x20 (B100_P0_R32)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	N_DIV	R/W	0000 0001	N divider is 0000 0000: 128 0000 0001: 1 0000 0010: 2 ... 1111 1110: 126 1111 1111: 127

Book 100 / Page 0 / Register 33: MDAC-VAL Divider Register - 0x64 / 0x00 / 0x21 (B100_P0_R33)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	MDAC_DIV	R/W	0000 0100	DAC divider is 0000 0000: 128 0000 0001: 1 0000 0010: 2 ... 1111 1110: 126 1111 1111: 127

Book 100 / Page 0 / Register 34: MADC-VAL Divider Register - 0x64 / 0x00 / 0x22 (B100_P0_R34)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RESERVED	R/W	00	Reserved. Write only reset values.
D6-D3	MADC_DIV_PRE	R/W	0001	ADC Divider pre is 0000: 16 0001: 1 0010: 2 ... 1110: 14 1111: 15
D2-D0	MADC_DIV_FIN	R/W	000	ADC divider final (this divider configuration is used only if B100_P0_R42[7:6]=11) is 000: 8 001: 1 010: 2 ... 110: 6 111: 7

Book 100 / Page 0 / Register 35-37: Reserved Register - 0x64 / 0x00 / 0x23-0x25 (B100_P0_R35-37)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved

Book 100 / Page 0 / Register 38: Charge-pump Clock Register - 0x64 / 0x00 / 0x26 (B100_P0_R38)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	CP_CLK_GEN	R/W	0	Charge pump clock generation is 0: Use internally generated oscillator clock 1: Use NDIV_CLK/MCLK_GPIO2/ICC_GPIO9
D6-D5	RESERVED	R/W	00	Reserved. Write only reset values.

**Book 100 / Page 0 / Register 38: Charge-pump Clock Register - 0x64 / 0x00 / 0x26
(B100_P0_R38) (continued)**

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D4-D0	CP_CLK_DIV	R/W	0010	Charge pump clock divider factor is 0 0000: 32 0 0001: 1 0 0010: 2 ... 1 1110: 30 1 1111: 31

Book 100 / Page 0 / Register 39: Boost Clock Register - 0x64 / 0x00 / 0x27 (B100_P0_R39)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RMP_CLK_GEN	R/W	0	Boost clock generation uses 0: internally generated oscillator clock 1: NDIV_CLK/MCLK_GPI2/ICC_GPIO9
D6-D3	BST_DIV_PRE	R/W	0010	Boost clock pre divider factor is 0000: 16 0001: 1 0010: 2 ... 1110: 14 1111: 15
D2-D0	BST_DIV_FIN	R/W	011	ADC divider final (this divider configuration is used only if B100_P0_R42[7:6]=11) is 000: 8 001: 1 010: 2 ... 110: 6 111: 7

Book 100 / Page 0 / Register 40: Ramp Clock 1 Register - 0x64 / 0x00 / 0x28 (B100_P0_R40)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7	RMP_CLK_GEN	R/W	0	Ramp clock generation is 0: internally generated 1: from DAC modulator clock (Refer to divider settings in B100_P0_R43-44)
D6-D0	RESERVED	R/W	000 0000	Reserved. Write only reset values.

Book 100 / Page 0 / Register 41-42: Reserved Register - 0x64 / 0x00 / 0x29-0x2A (B100_P0_R41-42)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved.

Book 100 / Page 0 / Register 43: Ramp Clock 2 Register - 0x64 / 0x00 / 0x2B (B100_P0_R43)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D3	RESERVED	R/W	0000 0	Reserved. Write only reset values.
D2-D0	RMP_CLK_MSB	R/W	000	Ramp Clock Divider [10:8]

Book 100 / Page 0 / Register 44: Ramp Clock 3 Register - 0x64 / 0x00 / 0x2C (B100_P0_R44)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RMP_CLK_LSB	R/W	000	Ramp Clock Divider [7:0]

Book 100 / Page 0 / Register 45-126: Reserved Register - 0x64 / 0x01 / 0x2D-0x7E (B100_P0_R45-126)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	RESERVED	R	xxxx xxxx	Reserved.

Book 100 / Page 0 / Register 127: Book Selection Register - 0x64 / 0x00 / 0x7F (B100_P0_R127)

BIT	FIELD	READ/ WRITE	RESET VALUE	DESCRIPTION
D7-D0	BOOK	R/W	0110 0100	0-255: Selects the Register Book for next read or write command.

14 Device and Documentation Support

14.1 Documentation Support

14.2 Community Resources

The following links connect to TI community resources. Linked contents are provided "AS IS" by the respective contributors. They do not constitute TI specifications and do not necessarily reflect TI's views; see TI's [Terms of Use](#).

TI E2E™ Online Community *TI's Engineer-to-Engineer (E2E) Community*. Created to foster collaboration among engineers. At e2e.ti.com, you can ask questions, share knowledge, explore ideas and help solve problems with fellow engineers.

Design Support *TI's Design Support* Quickly find helpful E2E forums along with design support tools and contact information for technical support.

14.3 Trademarks

PurePath, E2E are trademarks of Texas Instruments.
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14.4 Electrostatic Discharge Caution



These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage or handling to prevent electrostatic damage to the MOS gates.

14.5 Glossary

[SLYZ022](#) — *TI Glossary*.

This glossary lists and explains terms, acronyms, and definitions.

15 Mechanical, Packaging, and Orderable Information

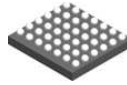
The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

15.1 Package Dimensions

The TAS2555 uses a 42-ball, 0.5-mm pitch DSBGA package.

Package Dimensions (continued)

TAS255xYZ, SN____255xYZ

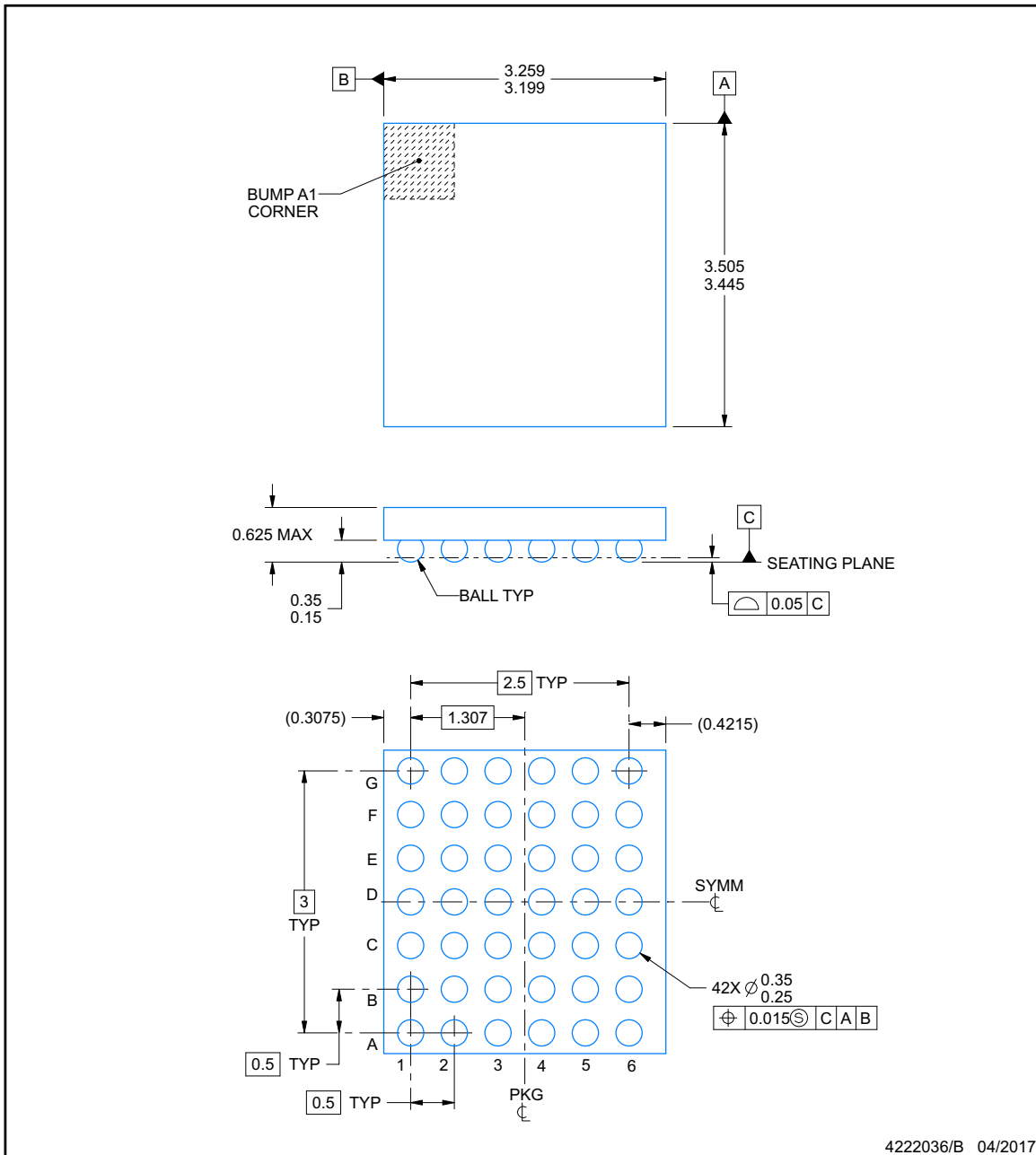


PACKAGE OUTLINE

YZ0042-C01

DSBGA - 0.625 mm max height

DIE SIZE BALL GRID ARRAY



NOTES:

1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.

Package Dimensions (continued)

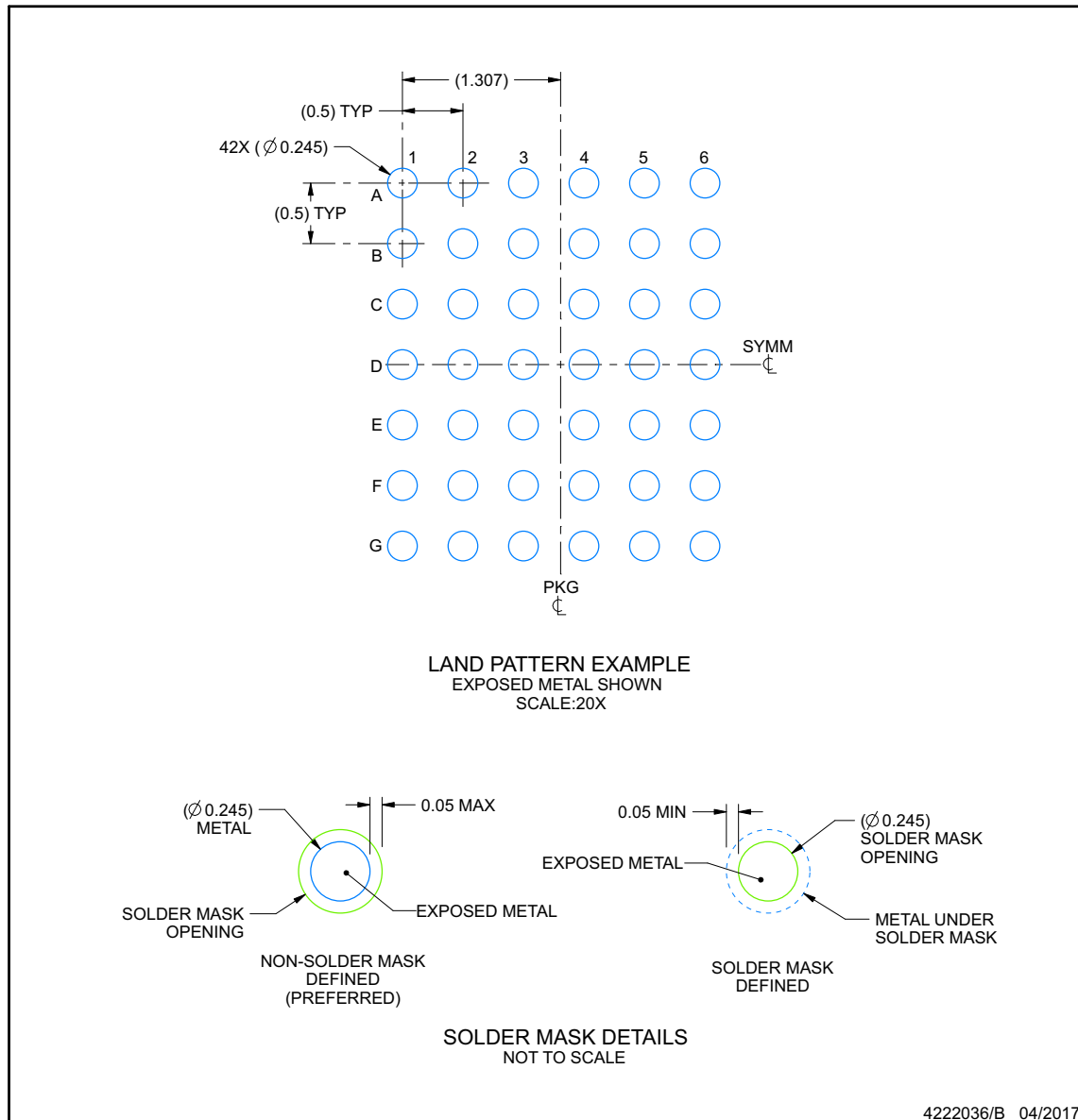
TAS255xYZ, SN____255xYZ

EXAMPLE BOARD LAYOUT

YZ0042-C01

DSBGA - 0.625 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

- Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. For more information, see Texas Instruments literature number SNVA009 (www.ti.com/lit/snva009).

Package Dimensions (continued)

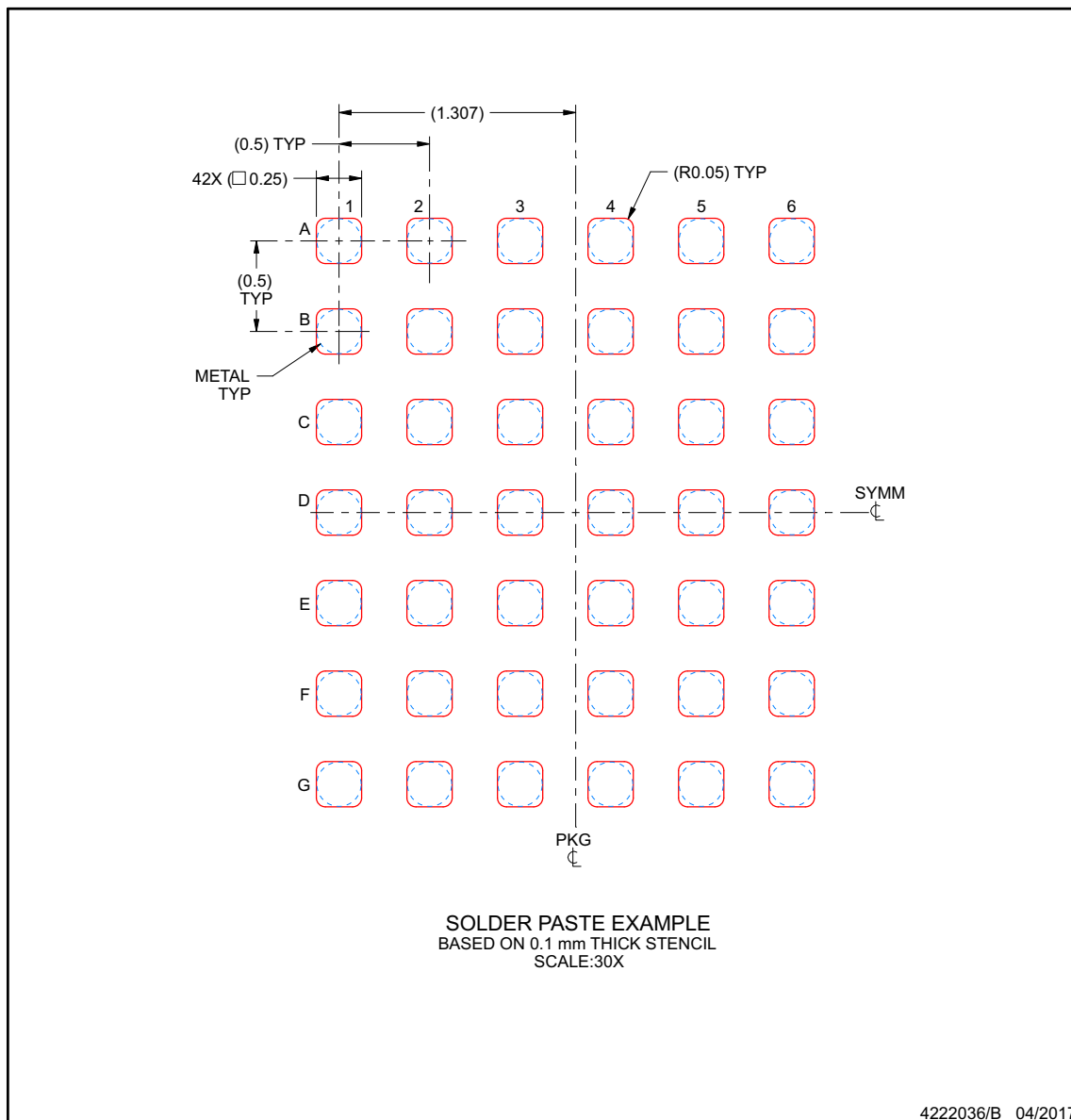
TAS255xYZ, SN____255xYZ

EXAMPLE STENCIL DESIGN

YZ0042-C01

DSBGA - 0.625 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

4. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release.

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
TAS2555YZR	Active	Production	DSBGA (YZ) 42	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	2555
TAS2555YZR.A	Active	Production	DSBGA (YZ) 42	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	2555
TAS2555YZT	Active	Production	DSBGA (YZ) 42	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	2555
TAS2555YZT.A	Active	Production	DSBGA (YZ) 42	250 SMALL T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	2555

⁽¹⁾ **Status:** For more details on status, see our [product life cycle](#).

⁽²⁾ **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

⁽³⁾ **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

⁽⁴⁾ **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

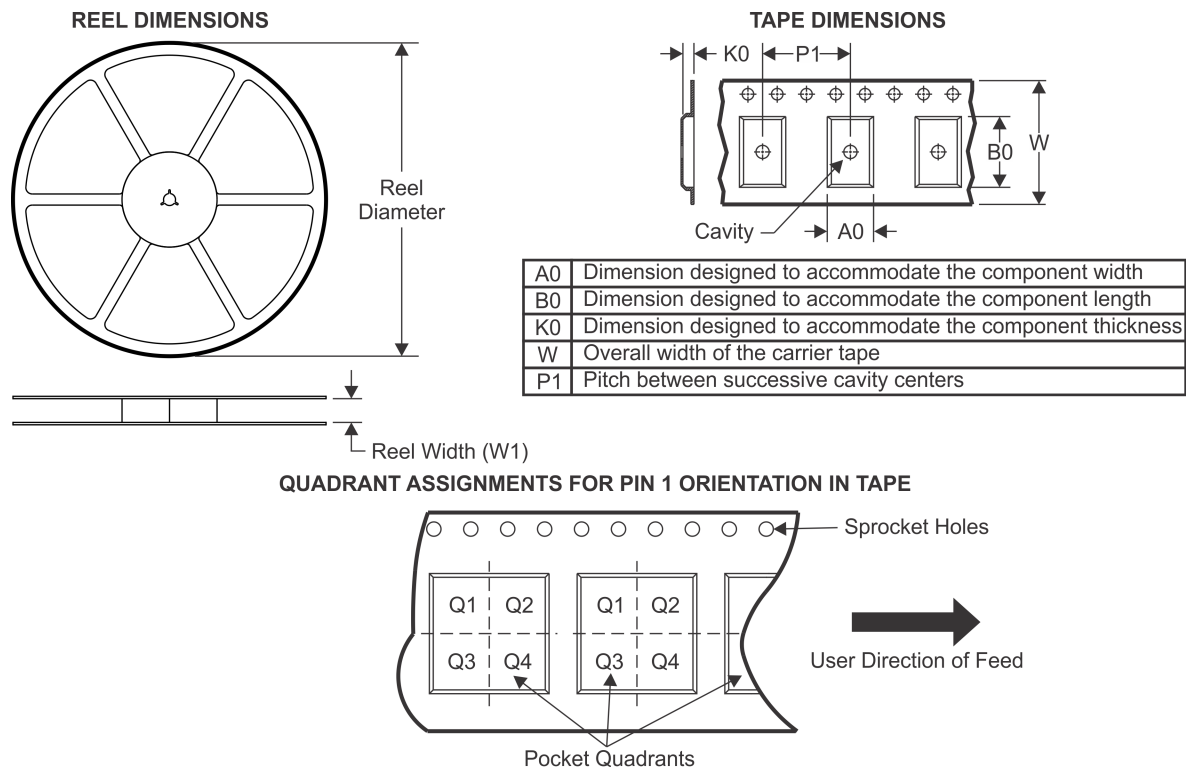
⁽⁵⁾ **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

⁽⁶⁾ **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "-" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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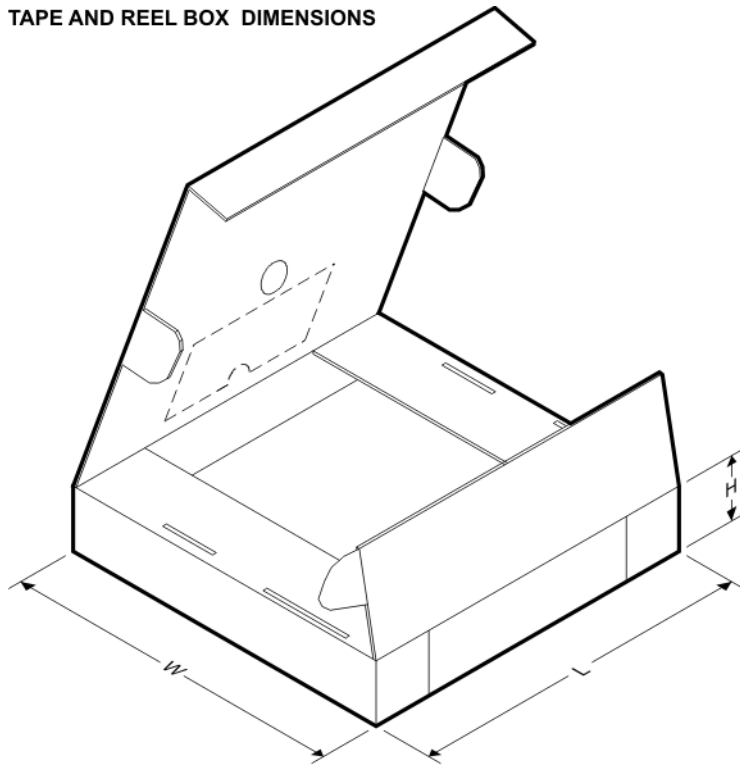
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TAPE AND REEL INFORMATION


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
TAS2555YZR	DSBGA	YZ	42	3000	330.0	12.4	3.4	3.75	0.82	8.0	12.0	Q1
TAS2555YZT	DSBGA	YZ	42	250	330.0	12.4	3.4	3.75	0.82	8.0	12.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TAS2555YZR	DSBGA	YZ	42	3000	335.0	335.0	25.0
TAS2555YZT	DSBGA	YZ	42	250	335.0	335.0	25.0

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