Date: 30Jan2025

AM26x HSEC Adapter Pinout:

AM261-SOM-EVM Rev E1

HSEC Pinout: 2.17

	HSEC pin	SOM Pin	GPIO#	MCU pin	MCU Usage for Std	HSEC cCARD standard	AM263x HSECDOCK Net		AM263x HSECDOCK Net	HSEC cCARD standard	MCU Usage for Std	MCU pin	GPIO #	SOM Pin	HSEC pin	
	1					JTAG-EMU1	-		-	JTAG-EMU0					2	
	3			TMS	TMS	JTAG-TMS	TMS		-	JTAG-TRSTn	-	-			4	
	5			TCK	TCK	JTAG-TCK	TCK		TDO	JTAG-TDO	TDO	TDO			6	
	7			GND	-	GND	GND		TDI	JTAG-TDI	TDI	TDI			8	
Analog	9	J1-119		ADC0_AIN0 / DAC_OUT	Analog	ADC1 (and/or DACA)	ADC0_AIN0 / DAC_OUT		GND	GND		GND			10	Analog
	11	J1-117		ADC0_AIN1	Analog	ADC1 (and/or DACB)	ADC0_AIN1		ADC1_AIN0	ADC2	Analog	ADC1_AIN0		J1-116	12	
	13			GND	-	GND	GND		ADC1_AIN1	ADC2	Analog	ADC1_AIN1		J1-114	14	
	15	J1-120		ADC0_AIN2	Analog	ADC1 (and/or CMPIN+)	ADC0_AIN2		GND	GND	-	GND			16	
	17	J1-118		ADC0_AIN3	Analog	ADC1	ADC0_AIN3		ADC1_AIN2	ADC2	Analog	ADC1_AIN2		J1-111	18	
	19			GND	-	GND	GND		ADC1_AIN3	ADC2	Analog	ADC1_AIN3		J1-109	20	
	21	J1-115		ADC0_AIN4	Analog	ADC1 (and/or CMPIN+)	ADC0_AIN4		GND	GND		GND			22	
	23	J1-113		ADC0_AIN5	Analog	ADC1	ADC0_AIN5		ADC1_AIN4	ADC2	Analog	ADC1_AIN4		J1-112	24	
	25	J1-107		ADC2_AIN0	Analog	ADC (and/or CMPIN+)	ADC2_AIN0		ADC1_AIN5	ADC2	Analog	ADC1_AIN5		J1-110	26	
	27	J1-105		ADC2_AIN1	Analog	ADC	ADC2_AIN1		ADC_CAL0	ADC	Analog	ADC_CAL0		J1-92	28	
	29			GND	-	GND	GND		0	ADC	Analog				30	
	31	J1-108		ADC2_AIN2	Analog	ADC	ADC2_AIN2		-	Rsv	-	-			32	
	33	J1-106		ADC2_AIN3	Analog	ADC	ADC2_AIN3		0	ADC	Analog				34	
	35			GND	-	GND	GND		0	ADC	Analog				36	
	37	J1-103		ADC2_AIN4	Analog	ADC	ADC2_AIN4		GND	GND		GND			38	
	39	J1-101		ADC2_AIN5	Analog	ADC	ADC2_AIN5		0	ADC	Analog				40	
	41					Rsv			0	ADC	Analog				42	
	43	J1-87		ADC_VREFLO_G0_G1_G2_G3	ADC_VREFLO	VREFLO	ADC_VREFLO_G0_G1_G2_G3		-	Rsv					44	
	45	J1-85		ADC_VREFHI_G0_G1	ADC_VREFHI_G0_G1	VREFHI	ADC_VREFHI_G0_G1		GND	GND	-	GND			46	
	47			GND	-	GND	GND		5V0	5V0	-	5V0_IN			48	
Digital	49	J1-15	GPIO43	EPWM0_A	EPWM0_A	PWM1A	EPWM0_A		EPWM2_A	PWM3A	EPWM2_A	EPWM2_A	GPIO47	J1-7	50	Digital
	51	J1-13	GPIO44	EPWM0_B	EPWM0_B	PWM1B	EPWM0_B		EPWM2_B	PWM3B	EPWM2_B	EPWM2_B	GPIO48	J1-5	52	
	53	J1-11	GPIO45	EPWM1_A	EPWM1_A	PWM2A	EPWM1_A		EPWM3_A	PWMA	EPWM3_A	EPWM3_A	GPIO49	J1-3	54	
	55	J1-9	GPIO46	EPWM1_B	EPWM1_B	PWM2B	EPWM1_B		EPWM3_B	PWMB	EPWM3_B	EPWM3_B	GPIO50	J1-1	56	
	57	J1-16	GPIO51	EPWM4_A	EPWM4_A	PWMA	EPWM4_A		EPWM6_A	PWMA or TZ1 or FSIRX-D0	EPWM6_A	EPWM6_A	GPIO55	J1-8	58	
	59	J1-14	GPIO52	EPWM4_B	EPWM4_B	PWMB	EPWM4_B		EPWM6_B	PWMB or TZ2 or FSIRX-CLK	EPWM6_B	EPWM6_B	GPIO56	J1-6	60	
	61	J1-12	GPIO53	EPWM5_A	EPWM5_A	PWMA	EPWM5_A		EPWM7_A	PWMA or TZ3	EPWM7_A	EPWM7_A	GPIO57	J1-4	62	
	63	J1-10	GPIO54	EPWM5_B	EPWM5_B	PWMB or FSIRX-D1	EPWM5_B		EPWM7_B	PWMB or TZ4	EPWM7_B	EPWM7_B	GPIO58	J1-2	64	
	65			GND	-	GND	GND		Rsv	Rsv	-	-			66	
	67	J2-30	GPIO14	SPI0_D1	SPI0_D1	SPISIMO	SPI		EQEP0_A	QEPA or McBSP-MDX	GPIO119	PR0_PRU1_GPIO19	GPIO119	J3-68	68	
	69	J2-32	GPIO13	SPI0_D0	SPI0_D0	SPISOMI	SPI		EQEP0_B	QEPB or McBSP-MDR	GPIO120	PR0_PRU1_GPIO18	GPIO120	J3-66	70	
	71	J2-34	GPIO12	SPI0_CLK	SPI0_CLK	SPICLK	LIN		EQEP0_STROBE	QEPS or McBSP-MCLKX	SDFM0_CLK0	SDFM0_CLK0	GPIO122	J1-54	72	
	73	J2-36	GPIO11	SPI0_CS0	SPI0_CS0	SPISTE	LIN		EQEP0_INDEX	QEPI or McBSP-MFSX	GPIO121	EXT_REFCLK0	GPIO121	J1-70	74	
	75	J1-59	GPIO17	SPI1_D0	SPI1_D0	eCAP or SPISIMO	SPI		LIN RX	SCIRX/UARTRX	LIN1_RXD	LIN1_RXD	GPIO19	J1-37	76	
	77	J1-57	GPIO18	SPI1_D1	SPI1_D1	eCAP or SPISOMI or FSITX-D1	SPI		LIN TX	SCITX/UARTTX or ERRORSTS	LIN1_TXD	LIN1_TXD	GPIO20	J1-35	78	
	79	J1-55	GPIO16	SPI1_CLK	SPI1_CLK	eCAP or SPICLK or FSITX-D0	SPI		MCAN RX	CANRX	MCAN0_RX	MMC0_CLK	GPIO77	J1-38	80	
	81	J3-57	GPIO15	SPI1_CS0	SPI1_CS0	eCAP or SPISTE or FSITX-CLK	SPI		MCAN TX	CANTX	MCAN0_TX	MMC0_CMD	GPIO78	J1-36	82	
	83			GND	-	GND	GND		5V0	5V0	-	5V0_IN			84	
	85	J1-63	GPIO84	MMC0_CD	I2C2_SDA	I2CSDA	I2C		GPIO	GPIO	UART0_RXD	UART0_RXD	GPIO27	J1-33	86	
	87	J1-61	GPIO83	MMC0_WP	I2C2_SCL	I2CSCL	I2C		GPIO	GPIO	UART0_TXD	UART0_TXD	GPIO28	J1-31	88	
	89	J3-99	GPIO85	PR0_MDIO0_MDIO (GPIO85)	PR0_MDIO0_MDIO (GPIO85)	GPIO	PR0_MDIO0_MDIO		PR0_MDIO0_MDC	GPIO	PR0_MDIO0_MDC (GPIO86)	PR0_MDIO0_MDC (GPIO86)	GPIO86	J3-97	90	
	91	J1-60	GPIO123	SDFM0_D0	SDFM0_D0	GPIO	GPIO		GPIO	GPIO	I2C0_SDA	I2C0_SDA	GPIO134	J1-25	92	
	93	J1-23	GPIO135	I2C0_SCL	I2C0_SCL	GPIO	GPIO		MCAN RX	GPIO	MCAN1_RX	MMC0_D0	GPIO79	J3-56	94	
	95	J3-54	GPIO80	MMC0_D1	MCAN1_TX	GPIO	MCAN TX		GPIO	GPIO	I2C1_SDA	MMC0_D2	GPIO81	J3-72	96	
	97			GND	-	GND	GND		5V0	5V0	-	5V0_IN			98	
	99	J1-58	GPIO125	SDFM0_D1	SDFM0_D1	SD-D	SDFM		QEPA	QEPA	EQEP0_A	EQEP0_A	GPIO130	J1-71	100	
	101	J1-72	GPIO124	SDFM0_CLK1	GPIO124	SD-C	SDFM		QEPB	QEPB	EQEP0_B	EQEP0_B	GPIO131	J1-69	102	
	103	J1-56	GPIO127	SDFM0_D2	SDFM0_D2	SD-D	SDFM		QEPS	QEPS	EQEP0_STROBE	EQEP0_STROBE	GPIO132	J1-67	104	
	105	J1-73	GPIO126	SDFM0_CLK2	GPIO126	SD-C	SDFM		QEPI	QEPI	EQEP0_INDEX	EQEP0_INDEX	GPIO133	J1-65	106	
	107	J1-50	GPIO129	SDFM0_D3	SDFM0_D3	SD-D	SDFM		MII0_RXER	GPIO or McBSP-MCLKR	ICSSM_MII0_RXER	PR0_PRU0_GPIO5	GPIO87	J3-111	108	
	109					SD-C	SDFM		MII0_COL	GPIO or McBSP-MFSR	ICSSM_MII0_COL	PR0_PRU0_GPIO9	GPIO88	J3-105	110	
	111			GND	-	GND	GND		5V0	5V0	-	5V0_IN			112	
	113	J3-29		PMIC_SAFE_OUT2	PMIC_SAFE_OUT2	Rsv/PMIC_SAFE_OUT	PMIC_SAFE_OUT2		PMIC_WKUP2	Rsv/PMIC_WAKE	INH signal from CAN transceiver	PMIC_WKUP2		J1-30	114	
	115				-	Rsv			Rsv	Rsv	-	-			116	
	117	J1-34		VDD_5V0_LDO3	VDD_5V0_LDO3	Rsv/5V0_OUT_CAN	VDD_5V0_LDO3		VDD	VDD	-	NC			118	
	119			3V3_OUT		VDDIO			PORz	Device Reset (Active low)		PORz		J1-29	120	
	121	J3-109	GPIO89	PR0_PRU0_GPIO10	ICSSM_MII0_CRS	GPIO	ICSS_MII0_CRS		ICSS_MII0_RXLINK	GPIO	ICSSM_MII0_RXLINK	PR0_PRU0_GPIO8	GPIO90	J3-87	122	
	123	J3-100	GPIO91	PR0_PRU0_GPIO6	ICSSM_MII0_RXCLK	GPIO	ICSS_MII0_RXCLK		ICSS_MII0_RXDV	GPIO	ICSSM_MII0_RXDV	PR0_PRU0_GPIO4	GPIO92	J3-113	124	
	125	J3-102	GPIO93	PR0_PRU0_GPIO0	ICSSM_MII0_RXD0	GPIO	ICSS_MII0_RXD0		ICSS_MII0_RXD1	GPIO	ICSSM_MII0_RXD1	PR0_PRU0_GPIO1	GPIO94	J3-104	126	
	127	J3-106	GPIO95	PR0_PRU0_GPIO2	ICSSM_MII0_RXD2	GPIO	ICSS_MII0_RXD2		ICSS_MII0_RXD3	GPIO	ICSSM_MII0_RXD3	PR0_PRU0_GPIO3	GPIO96	J3-108	128	
	129	J3-112	GPIO97	PR0_PRU0_GPIO16	ICSSM_MII0_TXCLK	GPIO	ICSS_MII0_TXCLK		ICSS_MII0_TXEN	GPIO	ICSSM_MII0_TXEN	PR0_PRU0_GPIO15	GPIO98	J3-115	130	
	131	J3-114	GPIO99	PR0_PRU0_GPIO11	ICSSM_MII0_TXD0	GPIO	ICSS_MII0_TXD0		ICSS_MII0_TXD1	GPIO	ICSSM_MII0_TXD1	PR0_PRU0_GPIO12	GPIO100	J3-116	132	
	133	J3-118	GPIO102	PR0_PRU0_GPIO13	ICSSM_MII0_TXD2	GPIO	ICSS_MII0_TXD2		ICSS_MII0_TXD3	GPIO	ICSSM_MII0_TXD3	PR0_PRU0_GPIO14	GPIO102	J3-120	134	
	135			GND	-	GND	GND		Rsv	Rsv	-	-			136	
	137	J3-95	GPIO103	PR0_PRU1_GPIO5	ICSSM_MII1_RXER	GPIO	ICSS_MII1_RXER		ICSS_MII1_COL	GPIO	ICSSM_MII1_COL	PR0_PRU1_GPIO9	GPIO104	J3-85	138	
	139	J3-83	GPIO105	PR0_PRU1_GPIO10	ICSSM_MII1_CRS	GPIO	ICSS_MII1_CRS		ICSS_MII1_RXLINK	GPIO	ICSSM_MII1_RXLINK	PR0_PRU1_GPIO8	GPIO106	J3-89	140	
	141	J3-76	GPIO107	PR0_PRU1_GPIO6	ICSSM_MII1_RXCLK	GPIO	ICSS_MII1_RXCLK		ICSS_MII1_RXDV	GPIO	ICSSM_MII1_RXDV	PR0_PRU1_GPIO4	GPIO108	J3-93	142	
	143	J3-78	GPIO109	PR0_PRU1_GPIO0	ICSSM_MII1_RXD0	GPIO	ICSS_MII1_RXD0		ICSS_MII1_RXD1	GPIO	ICSSM_MII1_RXD1	PR0_PRU1_GPIO1	GPIO110	J3-80	144	
	145	J3-82	GPIO111	PR0_PRU1_GPIO2	ICSSM_MII1_RXD2	GPIO	ICSS_MII1_RXD2		ICSS_MII1_RXD3	GPIO	ICSSM_MII1_RXD3	PR0_PRU1_GPIO3	GPIO112	J3-84	146	
	147	J3-88	GPIO113	PR0_PRU1_GPIO16	ICSSM_MII1_TXCLK	GPIO	ICSS_MII1_TXCLK		ICSS_MII1_TXEN	GPIO	ICSSM_MII1_TXEN	PR0_PRU1_GPIO15	GPIO114	J3-91	148	
	149	J3-90	GPIO115	PR0_PRU1_GPIO11 / MCAN6_RX	ICSSM_MII1_TXD0	GPIO	ICSS_MII1_TXD0		ICSS_MII1_TXD1	GPIO	ICSSM_MII1_TXD1	PR0_PRU1_GPIO12 / MCAN6_TX	GPIO116	J3-92	150	
	151	J3-94	GPIO117	PR0_PRU1_GPIO13	ICSSM_MII1_TXD2	GPIO	ICSS_MII1_TXD2		ICSS_MII1_TXD3	GPIO	ICSSM_MII1_TXD3	PR0_PRU1_GPIO14	GPIO118	J3-96	152	
	153	J2-23	GPIO136	GPIO136	GPIO136	GPIO	GPIO		GPIO	GPIO	GPIO68	GPIO68	GPIO68	J2-57	154	
	155	J2-21	GPIO137	GPIO137	GPIO137	GPIO	GPIO		GPIO	GPIO	GPIO67	GPIO67	GPIO67	J2-59	156	
	157			GND	-	GND	GND		5V0	5V0	-	5V0_IN			158	
	159	J2-58	GPIO60	EPWM8_B	EPWM8_B	GPIO	GPIO		GPIO	GPIO	GPIO70	GPIO70	GPIO70	J2-53	160	
	161	J2-60	GPIO59	EPWM8_A	EPWM8_A	GPIO	GPIO		GPIO	GPIO	GPIO69	GPIO69	GPIO69	J2-55	162	
	163	J2-54	GPIO62	EPWM9_B	EPWM9_B	GPIO	GPIO		GPIO	GPIO	SPI3_D0	UART0_RTSN	GPIO25	J1-45	164	
	165	J2-56	GPIO61	EPWM9_A	EPWM9_A	GPIO	GPIO		GPIO	GPIO	SPI3_D1	UART0_CTSN	GPIO26	J1-43	166	
	167	J2-50	GPIO64	GPIO64	GPIO64	GPIO	GPIO		GPIO	GPIO	SPI3_CLK	I2C1_SDA	GPIO24	J1-41	168	
	169	J2-52	GPIO63	GPIO63	GPIO63	GPIO	GPIO		GPIO	GPIO	SPI3_CS0	I2C1_SCL	GPIO23	J1-39	170	
	171	J3-33		PMIC_COMP2_IN+	PMIC_COMP2_IN+	Rsv/PMIC_COMP2_IN+	PMIC_COMP2_IN+		GPIO	Rsv/PMIC_WAKE2	-	-			172	
	173	J3-31		PMIC_COMP2_IN-	PMIC_COMP2_IN-	Rsv/PMIC_COMP2_IN-	PMIC_COMP2_IN-		GPIO	Rsv/LPM_WAKE	-	-			174	
	175	J3-37		PMIC_COMP1_IN+	PMIC_COMP1_IN+	Rsv/PMIC_COMP1_IN+	PMIC_COMP1_IN+		Rsv	Rsv	-	-			176	
	177	J3-35		PMIC_COMP1_IN-	PMIC_COMP1_IN-	Rsv/PMIC_COMP1_IN-	PMIC_COMP1_IN-		ERRORSTS/PMIC_SAFE_OUT1	ERRORSTS/PMIC_SAFE_OUT1	PMIC_SAFE_OUT1	PMIC_SAFE_OUT1		J1-32	178	
	179			GND	-	GND	GND		5V0	5V0	-	5V0_IN			180	