

SPC5645BCF0VLU1

SPC5645BCF0VLU1 Information



Part Number SPC5645BCF0VLU1

Manufacturer NXP

Category Integrated Circuits (ICs)

Embedded - Microcontrollers

Description NXP 32-BIT MCU POWER ARCH CORE

Package 176-LQFP

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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SPC5645BCF0VLU1 Specifications

Manufacturer SPC5645BCF0VLU1 Manufacturer NXP Category Integrated Circuits (ICs) Embedded - Microcontrollers Package 176-LQFP Series MPC56xx Qorivva Core Processor e200z4d Core Size 32-Bit Speed 120MHz Connectivity CANbus, PC, LINbus, SCI, SPI Peripherals DMA, POR, PWM, WDT Number of I/O 147 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	*	
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Core Processor e200z4d Core Size 32-Bit Speed 120MHz Connectivity CANbus, I²C, LINbus, SCI, SPI Peripherals DMA, POR, PWM, WDT Number of I/O 147 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Package	176-LQFP
Core Size 32-Bit Speed 120MHz Connectivity CANbus, I°C, LINbus, SCI, SPI Peripherals DMA, POR, PWM, WDT Number of I/O 147 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Series	MPC56xx Qorivva
Speed120MHzConnectivityCANbus, PC, LINbus, SCI, SPIPeripheralsDMA, POR, PWM, WDTNumber of I/O147Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size64K x 8RAM Size160K x 8Voltage - Supply (Vcc/Vdd)3 V ~ 5.5 VData ConvertersA/D 27x10b, 5x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case176-LQFPSupplier Device Package176-LQFP (24x24)	Core Processor	e200z4d
Connectivity Co	Core Size	32-Bit
Peripherals Number of I/O 147 Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature 40°C ~ 105°C (TA) Mounting Type - Package / Case Supplier Device Package 176-LQFP (24x24)	Speed	120MHz
Number of I/O Program Memory Size 2MB (2M x 8) Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case Supplier Device Package 176-LQFP (24x24)	Connectivity	CANbus, I ² C, LINbus, SCI, SPI
Program Memory Size Program Memory Type FLASH EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package	Peripherals	DMA, POR, PWM, WDT
Program Memory Type EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package	Number of I/O	147
EEPROM Size 64K x 8 RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Program Memory Size	2MB (2M x 8)
RAM Size 160K x 8 Voltage - Supply (Vcc/Vdd) 3 V ~ 5.5 V Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)3 V ~ 5.5 VData ConvertersA/D 27x10b, 5x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case176-LQFPSupplier Device Package176-LQFP (24x24)	EEPROM Size	64K x 8
Data Converters A/D 27x10b, 5x12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	RAM Size	160K x 8
Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (TA)Mounting Type-Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Voltage - Supply (Vcc/Vdd)	3 V ~ 5.5 V
Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Data Converters	A/D 27x10b, 5x12b
Mounting Type - Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Oscillator Type	Internal
Package / Case 176-LQFP Supplier Device Package 176-LQFP (24x24)	Operating Temperature	$-40^{\circ}\text{C} \sim 105^{\circ}\text{C} \text{ (TA)}$
Supplier Device Package 176-LQFP (24x24)	Mounting Type	-
	Package / Case	176-LQFP
Report errors?	Supplier Device Package	176-LQFP (24x24)
		Report errors?

SPC5645BCF0VLU1 Guarantees



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SPC5645BCF0VLU1 Shipping Methods













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