

XC2200

Next Generation Microcontroller with 32-Bit Performance

THE XC2200 FAMILY is the first sub-family of the new scalable 16-/32-bit XC2000 microcontroller family of Infineon, addressing the increasing complexity of highly integrated body and gateway applications.

Available are today the XC22xx derivatives from 448 to 768 Kbyte of flash, optional EEPROM emulation, up to 82 KByte SRAM with max 80 MHz CPU clock.

Expanding the portfolio up to 1.2 MByte of flash memory while addressing even higher performance requirements, Infineon will further enlarge the family with pin compatible MCUs. This makes the choice in favor of the XC2200 family a safe long-term decision, with Infineon's 130nm technology offering an additional performance boost at competitive costs.

The XC2200 family is optimized for mid-range to high-end body applications. Security features like a memory protection unit (MPU), help to protect the IP of the system supplier. Today's available XC2200 devices address low- to mid-range gateway applications integrated into body controllers. Soon to come variants will enlarge the portfolio, offering perfect fit for high-end central body and gateway applications. On top of that, Infineon has a stand-alone FlexRay™ communication controller available, that can be easily added to the system.

Having the most excellent configuration set is not enough. Providing an integrated flexible family concept is imperative. With the XC2200 body/gateway subfamily, Infineon is addressing the need for plug-and-play exchangeability through software- and pin-compatible devices. This true family concept provides scalability in terms of memory, peripherals, functionality and performance. Each memory configuration is available in multiple package options ranging from 64- to 176-pin LQFP. This allows easy upgrades when short of memory or I/O functionality.



Common Peripheral Features

The XC2200 body/gateway family makes use of a comprehensive library of the intelligent XC2000 platform peripherals:

- Two synchronizable A/D converters with 24 channels, optional data pre-processing, and a conversion time down to 1.2 μs
- Up to two 16-Channel general purpose capture/compare unit
- Multiple capture/compare units for flexible PWM signal generation (3 capture/compare channels and 1 compare channel)
- Multi-functional general purpose timer unit with 5 timers
- Multiple serial interface channels to be used as UART, LIN, SPI/QSPI, IIC Bus Interface, IIS Interface (optional)
- On-Chip MultiCAN interface (Rev. 2.0B active) with up to 256 message objects on up to 6 CAN nodes and gateway functionality
- Programmable watchdog timer and oscillator watchdog
- Enhanced power saving modes with flexible power management
- On-chip real time clock
- On-chip bootstrap loader
- On-chip debug support via JTAG interface
- Temperature range: -40° to +125°C
- Single Power Supply from 3.0 V to 5.5 V

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Product Brief

Product Summary

Type	eFlash [Kbytes]	RAM [Kbytes]	Frequency [MHz]	Serial Interface	Temperature Range [°C]	Package
SAF-XC2287-56F66L	448	34	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2287-56F66L	448	34	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAF-XC2287-56F80L	448	34	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAF-XC2287-56F80L	448	34	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2287-72F66L	576	50	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2287-72F66L	576	50	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2287-72F80L	576	50	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2287-72F80L	576	50	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2287-96F66L	768	82	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2287-96F66L	768	82	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2287-96F80L	768	82	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2287-96F80L	768	82	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-56F66L	448	34	66	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-56F66L	448	34	66	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-56F80L	448	34	80	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-56F80L	448	34	80	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-72F66L	576	50	66	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-72F66L	576	50	66	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-72F80L	576	50	80	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-72F80L	576	50	80	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-96F66L	768	82	66	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-96F66L	768	82	66	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2286-96F80L	768	82	80	3xSPI, 3xLIN, 3 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2286-96F80L	768	82	80	3xSPI, 3xLIN, 3 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-56F66L	448	34	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-56F66L	448	34	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-56F80L	448	34	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-56F80L	448	34	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-72F66L	576	50	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-72F66L	576	50	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-72F80L	576	50	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-72F80L	576	50	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-96F66L	768	82	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-96F66L	768	82	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2285-96F80L	768	82	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-144
SAK-XC2285-96F80L	768	82	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-144
SAK-XC2267-56F66L	448	34	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-56F66L	448	34	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2267-56F80L	448	34	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-56F80L	448	34	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2267-72F66L	576	50	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-72F66L	576	50	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2267-72F80L	576	50	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-72F80L	576	50	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2267-96F66L	768	82	66	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-96F66L	768	82	66	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2267-96F80L	768	82	80	6 x USIC, 5CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2267-96F80L	768	82	80	6 x USIC, 5CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2264-56F66L	448	34	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2264-56F66L	448	34	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2264-56F80L	448	34	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2264-56F80L	448	34	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2264-72F66L	576	50	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2264-72F66L	576	50	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2264-72F80L	576	50	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2264-72F80L	576	50	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100
SAK-XC2264-96F66L	768	82	66	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAK-XC2264-96F66L	768	82	66	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100
SAF-XC2264-96F80L	768	82	80	2xSPI, 2xLIN, 2 CAN	-40°C to +125°C	PG-LQFP-100
SAF-XC2264-96F80L	768	82	80	2xSPI, 2xLIN, 2 CAN	-40°C to +85°C	PG-LQFP-100