# Z SCC

**Family of Serial Communication Controllers**

*Additional 16-bit features*

- Encodes in the following modes: NRZ, NRZI-Mark, NRZI-Space, Bi-Phase-Mark (FM1), Bi-Phase-Space (FM0), Bi-Phase-Level (Manchester), Differential Bi-Phase-Level
- CRC-32, CRC-16 and CRC-CCITT
- 32-byte Transmit FIFO/32-byte Receive FIFO
- 2 DMA control signals per channel (Z16C30)
- Transmit and receive DMA controllers with single buffer, pipelined, array and linked-list modes (Z16C32)
- 16-Bit Transfers
- Two transmit and two receive DMA channels (Z16C35 only)

| Serial Family | Channels | DMA Controllers | Bus Interface | MHz | Part number | Package | Pins | Op. Temp. (°C) |
|---|---|---|---|---|---|---|---|---|
| SCC | 2 | 0 | Multiplex | 8 | Z80C3008PSC | DIP | 40 | 0 +70 |
| | | | | | Z80C3008VSC | PLCC | 44 | 0 +70 |
| | | | | 10 | Z80C3010PSC | DIP | 40 | 0 +70 |
| | | | | | Z80C3010VSC | PLCC | 44 | 0 +70 |
| | | | Nonmultiplex | 8 | Z85C3008PEC | DIP | 40 | -40 +105 |
| | | | | | Z85C3008PSC | DIP | 40 | 0 +70 |
| | | | | | Z85C3008VEC | PLCC | 44 | -40 +105 |
| | | | | | Z85C3008VSC | PLCC | 44 | 0 +70 |
| | | | | 10 | Z85C3010PEC | DIP | 40 | -40 +105 |
| | | | | | Z85C3010PSC | DIP | 40 | 0 +70 |
| | | | | | Z85C3010VEC | PLCC | 44 | -40 +105 |
| | | | | | Z85C3010VSC | PLCC | 44 | 0 +70 |
| | | | | 16 | Z85C3016PSC | DIP | 40 | 0 +70 |
| | | | | | Z85C3016VSC | PLCC | 44 | 0 +70 |
| ESCC | 2 | 0 | Multiplex | 10 | Z8023010PSC | DIP | 40 | 0 +70 |
| | | | | | Z8023010VSC | PLCC | 44 | 0 +70 |
| | | | | 16 | Z8023016PSC | DIP | 40 | 0 +70 |
| | | | | | Z8023016VSC | PLCC | 44 | 0 +70 |
| | | | Nonmultiplex | 8 | Z8523008PSC | DIP | 40 | 0 +70 |
| | | | | | Z8523008VEC | PLCC | 44 | -40 +105 |
| | | | | | Z8523008VSC | PLCC | 44 | 0 +70 |
| | | | | 10 | Z8523010PEC | DIP | 40 | -40 +105 |
| | | | | | Z8523010PSC | DIP | 40 | 0 +70 |
| | | | | | Z8523010VEC | PLCC | 44 | -40 +105 |
| | | | | | Z8523010VSC | PLCC | 44 | 0 +70 |
| | | | | 16 | Z8523016PEC | DIP | 40 | -40 +105 |
| | | | | | Z8523016PSC | DIP | 40 | 0 +70 |
| | | | | | Z8523016VEC | PLCC | 44 | -40 +105 |
| | | | | | Z8523016VSC | PLCC | 44 | 0 +70 |
| | | | | 20 | Z8523020PSC | DIP | 40 | 0 +70 |
| | | | | | Z8523020VSC | PLCC | 44 | 0 +70 |
| EMSCC | 1 | 0 | Nonmultiplex | 10 | Z8523310FSC | PQFP | 44 | 0 +70 |
| | | | | | Z8523310VSC | PLCC | 44 | 0 +70 |
| | | | | 16 | Z8523316FSC | PQFP | 44 | 0 +70 |
| | | | | | Z8523316VSC | PLCC | 44 | 0 +70 |
| | | | | 20 | Z8523320FSC | PQFP | 44 | 0 +70 |
| USC | 2 | 0 | Multiplex and nonmultiplex | 10 | Z16C3010AEC | LQFP | 100 | -40 +105 |
| | | | | | Z16C3010ASC | LQFP | 100 | 0 +70 |
| | | | | | Z16C3010VEC | PLCC | 68 | -40 +105 |
| | | | | | Z16C3010VSC | PLCC | 68 | 0 +70 |
| IUSC | 1 | 2 | Multiplex and nonmultiplex | 20 | Z16C3220FSC | PQFP | 80 | 0 +70 |
| | | | | | Z16C3220VSC | PLCC | 68 | 0 +70 |
| ISCC | 2 | 2 | Multiplex and nonmultiplex | 10 | Z16C3510VSC | PLCC | 68 | 0 +70 |
| | | | | 16 | Z16C3516VSC | PLCC | 68 | 0 +70 |



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