



## **Z86E3116SEG Information**



For Reference Only

Part Number Z86E3116SEG

Manufacturer Zilog

Category Integrated Circuits (ICs)

Embedded - Microcontrollers

**Description** IC MCU 8BIT 2KB OTP 28SOIC **Package** 28-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

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## **Z86E3116SEG Specifications**

| Manufacturer Part Number         Z86E3116SEG           Manufacturer         Zilog           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         28-SOIC (0.295", 7.50mm Width)           Series         Z8?           Core Processor         Z8           Core Size         8-Bit           Speed         16MHz           Connectivity         -           Peripherals         POR, WDT           Number of I/O         24           Program Memory Size         2KB (2K x 8)           Program Memory Type         OTP           EEPROM Size         -           RAM Size         125 x 8           Voltage - Supply (Vcc/Vdd)         4.5 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -  | •                          |                                |
|---|----------------------------|--------------------------------|
| Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         28-SOIC (0.295", 7.50mm Width)           Series         Z8?           Core Processor         Z8           Core Size         8-Bit           Speed         16MHz           Connectivity         -           Peripherals         POR, WDT           Number of I/O         24           Program Memory Size         2KB (2K x 8)           Program Memory Type         OTP           EEPROM Size         -           RAM Size         125 x 8           Voltage - Supply (Vcc/Vdd)         4.5 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -  | Manufacturer Part Number   | Z86E3116SEG                    |
| Package         28-SOIC (0.295", 7.50mm Width)           Series         Z8?           Core Processor         Z8           Core Size         8-Bit           Speed         16MHz           Connectivity         -           Peripherals         POR, WDT           Number of I/O         24           Program Memory Size         2KB (2K x 8)           Program Memory Type         OTP           EEPROM Size         -           RAM Size         125 x 8           Voltage - Supply (Vcc/Vdd)         4.5 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -   | Manufacturer               | Zilog                          |
| Package         28-SOIC (0.295", 7.50mm Width)           Series         Z8?           Core Processor         Z8           Core Size         8-Bit           Speed         16MHz           Connectivity         -           Peripherals         POR, WDT           Number of I/O         24           Program Memory Size         2KB (2K x 8)           Program Memory Type         OTP           EEPROM Size         -           RAM Size         125 x 8           Voltage - Supply (Vcc/Vdd)         4.5 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -   | Category                   | Integrated Circuits (ICs)      |
| Series         Z8?           Core Processor         Z8           Core Size         8-Bit           Speed         16MHz           Connectivity         -           Peripherals         POR, WDT           Number of I/O         24           Program Memory Size         2KB (2K x 8)           Program Memory Type         OTP           EEPROM Size         -           RAM Size         125 x 8           Voltage - Supply (Vcc/Vdd)         4.5 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 105°C (TA)           Mounting Type         -  |                            | Embedded - Microcontrollers    |
| Core ProcessorZ8Core Size8-BitSpeed $16MHz$ Connectivity-PeripheralsPOR, WDTNumber of I/O $24$ Program Memory Size $2KB$ ( $2K \times 8$ )Program Memory TypeOTPEEPROM Size-RAM Size $125 \times 8$ Voltage - Supply (Vcc/Vdd) $4.5 \text{ V} \sim 5.5 \text{ V}$ Data Converters-Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (TA)Mounting Type-  | Package                    | 28-SOIC (0.295", 7.50mm Width) |
| Core Size  Speed  16MHz  Connectivity  - Peripherals  POR, WDT  Number of I/O  24  Program Memory Size  2KB (2K x 8)  Program Memory Type  OTP  EEPROM Size  - RAM Size  125 x 8  Voltage - Supply (Vcc/Vdd)  4.5 V ~ 5.5 V  Data Converters  Oscillator Type  Operating Temperature  Mounting Type  - 40°C ~ 105°C (TA)  Mounting Type   | Series                     | Z8?                            |
| Speed16MHzConnectivity-PeripheralsPOR, WDTNumber of I/O24Program Memory Size2KB (2K x 8)Program Memory TypeOTPEEPROM Size-RAM Size125 x 8Voltage - Supply (Vcc/Vdd)4.5 V ~ 5.5 VData Converters-Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-  | Core Processor             | Z8                             |
| Connectivity-PeripheralsPOR, WDTNumber of I/O24Program Memory Size2KB (2K x 8)Program Memory TypeOTPEEPROM Size-RAM Size125 x 8Voltage - Supply (Vcc/Vdd)4.5 V ~ 5.5 VData Converters-Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-  | Core Size                  | 8-Bit                          |
| Peripherals  Number of I/O  24  Program Memory Size  2KB (2K x 8)  OTP  EEPROM Size  -  RAM Size  125 x 8  Voltage - Supply (Vcc/Vdd)  Data Converters  - Oscillator Type  Internal  Operating Temperature  Mounting Type  -  POR, WDT  24  A 5 V x 5.5 V  DTP  Internal  -40°C ~ 105°C (TA)  Mounting Type  -  | Speed                      | 16MHz                          |
| Number of I/O  Program Memory Size  2KB (2K x 8)  OTP  EEPROM Size  -  RAM Size  125 x 8  Voltage - Supply (Vcc/Vdd)  Data Converters  - Oscillator Type  Internal  Operating Temperature  40°C ~ 105°C (TA)  Mounting Type  -  2KB (2K x 8)  OTP  -  INTERNAL  INTERNAL  INTERNAL  INTERNAL  INTERNAL  INTERNAL  INTERNAL  INTERNAL  -40°C ~ 105°C (TA)  INTERNAL  | Connectivity               | -                              |
| Program Memory Size 2KB (2K x 8)  Program Memory Type OTP  EEPROM Size -  RAM Size 125 x 8  Voltage - Supply (Vcc/Vdd) 4.5 V ~ 5.5 V  Data Converters -  Oscillator Type Internal  Operating Temperature -40°C ~ 105°C (TA)  Mounting Type -  | Peripherals                | POR, WDT                       |
| Program Memory Type  EEPROM Size - RAM Size 125 x 8  Voltage - Supply (Vcc/Vdd) 4.5 V ~ 5.5 V  Data Converters - Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA)  Mounting Type -   | Number of I/O              | 24                             |
| EEPROM Size-RAM Size $125 \times 8$ Voltage - Supply (Vcc/Vdd) $4.5 \times 5.5 \times 5.$ | Program Memory Size        | 2KB (2K x 8)                   |
| RAM Size $125 \times 8$ Voltage - Supply (Vcc/Vdd) $4.5 \text{ V} \sim 5.5 \text{ V}$ Data Converters $-$ Oscillator Type Internal $-40^{\circ}\text{C} \sim 105^{\circ}\text{C (TA)}$ Mounting Type $-$  | Program Memory Type        | OTP                            |
| Voltage - Supply (Vcc/Vdd) 4.5 V $\sim$ 5.5 V<br>Data Converters - Oscillator Type Internal Operating Temperature -40°C $\sim$ 105°C (TA)<br>Mounting Type -  | EEPROM Size                | -                              |
| Data Converters - Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type -   | RAM Size                   | 125 x 8                        |
| Oscillator Type Internal  | Voltage - Supply (Vcc/Vdd) | 4.5 V ~ 5.5 V                  |
| Operating Temperature $-40^{\circ}\text{C} \sim 105^{\circ}\text{C} \text{ (TA)}$<br>Mounting Type $-$  | Data Converters            | -                              |
| Mounting Type -   | Oscillator Type            | Internal                       |
|   | Operating Temperature      | -40°C ~ 105°C (TA)             |
|   | Mounting Type              | -                              |
| Package / Case 28-SOIC (0.295", 7.50mm Width)   | Package / Case             | 28-SOIC (0.295", 7.50mm Width) |
| Supplier Device Package -   | Supplier Device Package    | -                              |
| Report errors?  |                            | Report errors?                 |

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