

The TZM8202-02 is a module that combines the T32CZ20 SoC from Trident IoT with a crystal and passive components to make this the ideal choice for single microcontroller Z-Wave and Z-Wave Long Range solutions.

To cater to the needs of Home Security and Industrial control applications, the TZM8202 offers an impressive 192kB of SRAM and 1MB of Flash and with its low sleep current in both active RF modes and power-down states, battery-operated devices enjoy extended lifespans.

Create new devices or simply upgrade your legacy ZM5202 designs with the **pin-for-pin compatible** TZM8202 and get all the features and benefits of the latest Z-Wave and Z-Wave Long range protocols.

Features:

Protocols:

- Z-Wave®
- Z-Wave® Long Range

Radio Performance:

- +20dBm TX
- 908, 912, 916, 920 MHz
- -112dBm @9.6kps FSK
- -110dBm @ 40kbps FSK
- -107dBm @100kbps GFSK
- -108dBm @100kps OQPSK+DSSS

Modulation:

- (G)FSK with configurable shaping
- DSSS-OQPSK

Energy Consumption:

- +1.8V to +3.6Vdc
- 5.8mA RX
- 83mA @+20dBm TX
- 25mA @+14dBm TX
- 1.2uA Deep Sleep

MCU Specification:

- 32 Bit ARM® Cortex-M33
- Up to 64 MHz
- 1024kB Flash program memory
- 288kb SRAM (192kB available)

Integrated Peripherals:

- 8 x GPIO
- DMA controller
- 4 channel 12bit ADC
- 2 x UART
- I²S
- I²C master/slave
- 2x UART test points
- 2 x SPI
- 5 x PWM (32bit)
- 5x 32-bit timers
- RTC Timer
- External 32MHz high frequency crystal
- Internal low frequency RC oscillator
- Watchdog Timer
- Internal Temperature Sensor

Environment:

- -40°C to 85°C operating temperature

Package:

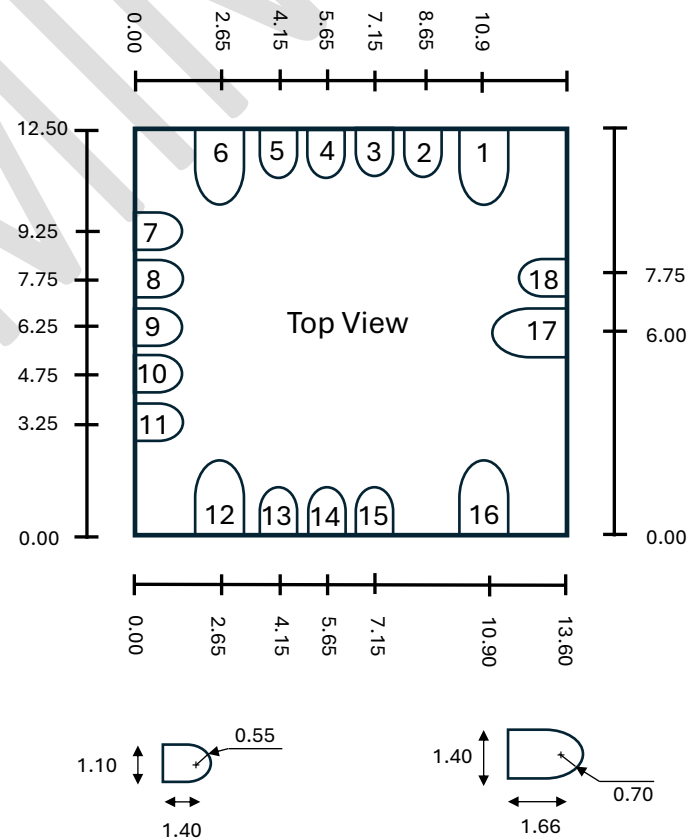
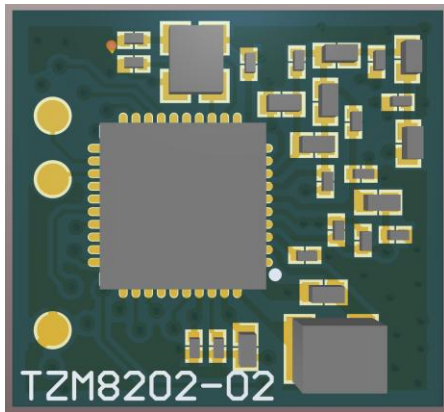
SOM 18 pin

12.6 x 13.5 x 2.0mm

Order number:

TZM8202-02

136 piece/tray



All Dimension in mm