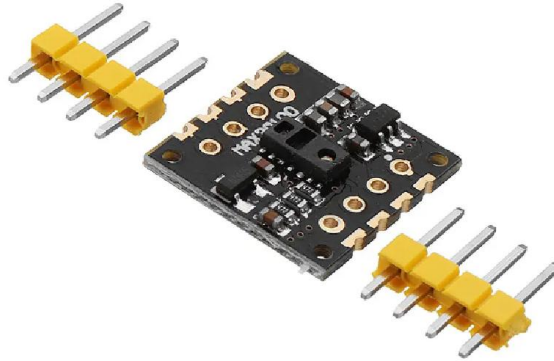# MAX30100 MODULE

MAX30100 Heart Rate Sensor Pulse Oximetry Sensor Module For Ardunio STM32 R3

General Description:

The MAX30100 is an integrated pulse oximetry and heart-rate monitor sensor solution. It combines two LEDs, a photodetector, optimized optics, and low-noise analog signal processing to detect pulse oximetry and heart-rate signals.
The MAX30100 operates from 1.8V and 3.3V power supplies and can be powered down through software with negligible standby current, permitting the power supply to remain connected at all times.

Applications:

Wearable Devices
Fitness Assistant Devices
Medical Monitoring Devices

Benefits and Features:

Complete Pulse Oximeter and Heart-Rate Sensor
Solution Simplifies Design
Integrated LEDs, Photo Sensor, and
High-Performance Analog Front -End
Tiny 5.6mm x 2.8mm x 1.2mm 14-Pin Optically
Enhanced System-in-Package
Ultra-Low-Power Operation Increases Battery Life for
Wearable Devices
Programmable Sample Rate and LED Current for Power Savings
Ultra-Low Shutdown Current (0.7uA, typ)
Advanced Functionality Improves Measurement Performance
High SNR Provides Robust Motion Artifact Resilience
Integrated Ambient Light Cancellation
High Sample Rate Capability
Fast Data Output Capability

Package includes:

1 x MAX30100 Heart Rate Sensor Module