Assortments & Kits



RoHS

Nano 33 BLE Sense with Header Development Board





67AH8876

Features

- Arduino's 3.3V AI enabled board in the smallest available form factor: 45x18mm
- Embedded artificial intelligence
- Possibility of running Edge Computing applications (AI) on it using TinyML
- Can be both a BLE and Bluetooth® client and host device
- 1MB CPU flash memory, 256KB SRAM
- 14 pin digital input / output, PWM pins, UART, SPI, I2C
- Length is 45mm, width is 18mm, weight is 5g (with headers)

Heart-Rate and Pulse-Oximetry Monitor Breakout Board



83AH8927

Applications

- Wearables
- Heart-rate monitor
- Pulse oximeter

Description

The reference design is a low power, optical heart-rate module complete with integrated red and IR LEDs, and a power supply. This tiny board, perfect for wearable projects, may be placed on a finger or earlobe to accurately detect heart rate. This versatile module works with both Arduino and mbed platforms for quick testing, development and system integration. A basic, open-source heart-rate and SpO2 algorithm is included in the example firmware.

The board features 8 sewing tap pads for attachment and quick electrical connection to a development platform.

Features

- Optical Heart-Rate Monitor and Pulse Oximetry Solution
- Tiny 12.7mm x 12.7mm (0.5in x 0.5in) Board Size
- Low Power
- **Device Drivers**
- Free Algorithm
- Example C Source Code For Arduino And mbed Platforms
- Test Data

Competitive Advantages

- Highly-integrated, small-size sensor
- Non-chest based heart-rate/SpO2 detection
- Ultra-low power consumption

multicomp PRO

Assortments & Kits



Thermistor, NTC, 10kΩ, 3977 K, Through Hole, Radial Leaded



Features

- · Accurate over a wide temperature range
- · High stability over a long life
- · Excellent performance ratio
- · Low heat conductivity through 0.4mm Ni-leads
- UL recognized, file E148885
- Resistance value at 25°C ranges from 2Kohm to 470Kohm
- ±1%, ±2%, ±3% and ±5% resistance tolerance available
- Beta value (B25/85value) range from 3528K to 4570K
- Tolerance on B25/85-value ranges from ±0.5% to ±2%
- Operating temperature range from -40°C to +125°C

Specifications

Zero Power Resistance at 25°C: 10kΩ

Thermistor Mounting : Through Hole Beta Value (K) : 3977K

Thermistor Terminals : Radial Leaded

3ft Black Micro USB 2.0 Cable, Type A to Micro B Male



Specifications

Connector to Connector : Type A Plug to Micro Type B Plug

USB Standard : USB 2.0
Cable Length : 3ft
Jacket Colour : Black

Kit Contents

Order Code	Description	Quantity
67AH8876	Nano 33 BLE Sense with Header Development Board	1
83AH8927	Heart-Rate and Pulse-Oximetry Monitor Breakout Board	ı
98K8276	Thermistor, NTC, $10k\Omega$, 3977 K, Through Hole, Radial Leaded	3
52AH8290	3ft Black Micro USB 2.0 Cable, Type A to Micro B Male	1

Part Number Table

Description	Part Number	
Assortments & Kits	BE491 PACK	

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro Farnell.com/multicomp-pro Element14.com/multicomp-pro

