

Advanced-Performance OEM Pulse Oximetry Solutions

OEM III® Internal Pulse Oximetry Module

Nonin Medical's OEM III® Internal Pulse Oximetry Module provides a simple way to incorporate clinically tested pulse oximetry technology into medical devices. Combining a compact embedded design, low power requirements, and industry-leading accuracy,[3] OEM III helps manufacturers add SpO_2 and pulse rate monitoring without the complexity of developing an oximetry solution from the ground up.

Designed for space-constrained medical devices, the module supports applications ranging from patient monitoring and respiratory care to sleep diagnostics and home monitoring. Its compatibility with Nonin PureLight® sensors helps manufacturers maintain consistent measurements across flexible device designs.

Powered by Nonin's PureSAT® SpO_2 technology, OEM III delivers precise clinical performance even when patient signals are challenging. This signal processing technology separates physiological signals from artifact interference, maintaining accuracy during motion and low perfusion for both pediatric and adult populations.[3]



Drop-In Architecture
Compact footprint for space-constrained devices.

High-Resolution Pulse Oximetry (HRPO)

OEM III is now available with High-Resolution Pulse Oximetry (HRPO), providing SpO_2 values to the tenth of a percent to reveal subtle changes that conventional whole-number reporting may overlook.[1]

- **Enhanced patient visibility:** Captures subtle desaturation events and rapid oxygen saturation fluctuations the moment they occur.[1,2]
- **True drop-in upgrade:** Instantly access higher-resolution data streams without requiring a host device redesign.

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OEM III® Internal Pulse Oximetry Module

PureSAT® Signal Processing
Separates true physiological signals from artifact and noise for accurate[3] SpO_2 measurements.

Low Power Consumption
Minimizes power requirements to optimize overall device design and system efficiency.

Wide Range of Medical Applications
Ideal for patient monitoring, respiratory care, sleep diagnostics, home monitoring, and more.

Compact Embedded Design
Small footprint simplifies integration into existing device architectures.

Clinically Tested Performance
Validated during motion and low perfusion to support accurate SpO_2 measurements.[3]

Compatible with Nonin PureLight® Sensors
Supports a comprehensive selection of reusable and disposable options to accommodate various patient sizes and ages.

Get More From Your Measurements with HRPO

High-resolution SpO_2 data provides the objective clinical evidence needed to expand your device's capabilities and confidently address new care models.

Low-Overhead Integration
Expands clinical utility without increasing processing power or battery demands.

SpO_2 Values to One Decimal Place
Provides higher-resolution oxygen saturation data than traditional whole-number reporting.

Enhanced Market Reach
Enables remote screening capabilities where traditional laboratory testing is unavailable or cost-prohibitive.

EXPLORE HIGH-RESOLUTION OEM SOLUTIONS AT **nonin.com/OEM3**

[1] Rodrigues Rocha, P., Domingues, D. M., Giampá, S. Q. C., Crema, J. P. W., Soares, F., Genta, P. R., Gozal, D., & Lorenzi-Filho, G. (2025). *Impact of oximetry resolution on detection of oxyhemoglobin desaturation events and hypoxic burden in patients with obstructive sleep apnea.* Sleep Medicine, 136, Article 106814. https://doi.org/10.1016/j.sleep.2025.106814

[2] Di Fiore, J. M., et al. (2012). *Low oxygen saturation target range is associated with increasedincidence of intermittent hypoxemia.* Journal of Pediatrics, 161(6), 1047–1052. https://doi.org/10.1016/j.jpeds.2012.05.046

[3] Nonin Medical, Inc. data on file when used with select Nonin Medical sensors.

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