



Higher Resolution. Greater Clinical Insight.

Precision beyond whole-number reporting.

Every measurement has the potential to reveal more.

High-Resolution Pulse Oximetry (HRPO) expands the capabilities of Nonin Medical's pulse oximetry portfolio, enabling oxygen saturation reporting to the tenth of a percent. By moving beyond whole-number reporting, HRPO provides greater visibility into subtle changes and trends that may otherwise be overlooked, providing clinicians with additional data to help inform patient care.¹

HRPO is available across multiple Nonin OEM solutions, giving medical device manufacturers the flexibility to integrate higher-resolution pulse oximetry into a wide range of device designs.

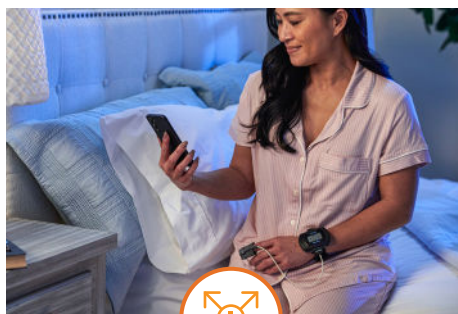


OEM III
Embedded Pulse
Oximetry Module

Xpod® 3012LP
External OEM Pulse
Oximetry Module



Get More From Your Measurements



Broad Clinical Applications

From sleep diagnostics to respiratory care and long-term monitoring in acute care settings.



Accurate by Design

Built on proven Nonin pulse oximetry technology for dependable performance in challenging conditions like motion and low perfusion.²



Flexible Implementation

Available in embedded and external pulse oximetry modules—no hardware redesign required.

HRPO Solutions from Nonin Medical

Whether designing an embedded system or integrating an external module, Nonin offers flexible OEM solutions with HRPO to support a range of device architectures and clinical applications.

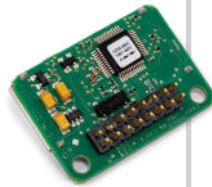
OEM III

Internal Pulse Oximetry Module

Bring HRPO directly into your device with a compact internal pulse oximetry module for seamless system-level performance.

Highlights:

- Embedded HRPO capability
- Designed for compact, low-power device integration
- Simple 3-wire serial interface output



Xpod® 3012LP

External OEM Pulse Oximetry Module

Add HRPO with a low-power external pulse oximetry module for easy deployment in portable and connected medical devices

Highlights:

- External HRPO capability
- Designed for external, plug-and-play device integration
- Mini-12, USB, or custom connector options*



INCLUDED IN BOTH MODULES:

- Nonin PureLight® sensor compatibility
- Full development kits and dedicated engineering support

Designed for OEM Success

For more than 40 years, Nonin Medical has been a dependable partner to device manufacturers, delivering accurate pulse oximetry technology and end-to-end expertise.²

- Trusted by 400+ medical device manufacturers
- Powering more than one million products worldwide
- Engineering support from concept to commercialization



LEARN MORE AT nonin.com/OEM

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

* Xpod with HRPO capability is available in the USB and unterminated connectors options.

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