

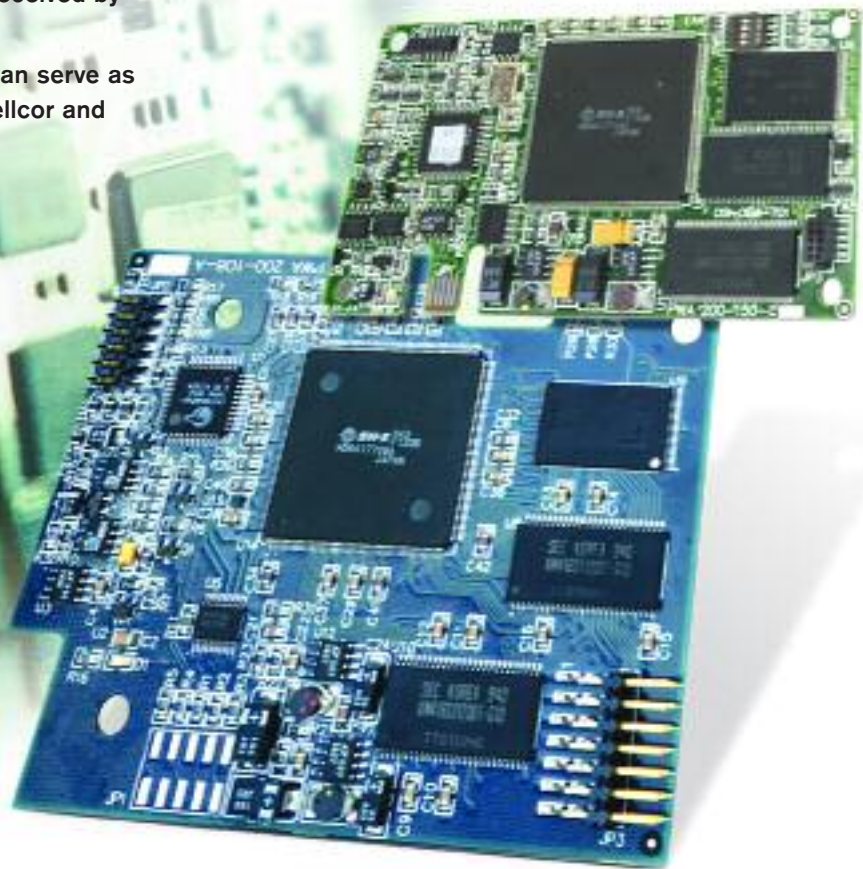


OEM Oximetry Modules

- Featuring Dolphin Medical's ONE™ (Oximetry Noise Elimination) technology to reduce alarms and improve performance during motion and low perfusion
- Dolphin OEM modules interface with Dolphin's patented line of ONE™ sensors that both amplify and digitize the signal in the sensor, resulting in a stronger and higher quality signal being received by the host system
- Offering several sizes that can serve as drop-in replacements for Nellcor and Masimo OEM modules

Oximetry performance is the most critical right when conditions are most difficult. That's when you can count on Dolphin Medical's ONE™ (Oximetry Noise Elimination) technology.

Dolphin's OEM oximetry modules are designed to substantially improve performance and eliminate nuisance alarms associated with motion and low perfusion. Dolphin's OEM modules interface directly with the Dolphin ONE™ family of sensors and the host platform to calculate SpO₂ and pulse rate.



OEM Oximetry Modules

Environmental

Operating temperature	-5°C to +45°C (23°F to 113°F)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Operating humidity	5% to 95%, non-condensing
Operating altitude	-304 m to 5,486 m (-1,000 ft to 18,000 ft) 503 mbar to 1,059 mbar

Range

SpO ₂ (functional)	0% to 100%
Pulse rate (beats per minute)	30-240
Normal sensitivity (perfusion %)	0.06% to 20%
High sensitivity (perfusion %)	0.02% to 20%
Perfusion (%)	(AC/DC) $\times 100$ 0-60°C
Body temperature (Dolphin 701 only)	

Resolution

SpO ₂ (functional)	1%
Pulse rate (beats per minute)	1
Body Temperature (Dolphin 701 only)	0.1°C

Modes

Averaging	Smart algorithm utilising 4 to 12 second data stream, depending on signal to noise ratio
Sensitivity	Normal and High
Patient types	Adult, Paediatric and Neonatal

Dolphin 601

Size	97 x 79 mm (3.8 x 3.1 inches)
Weight	34 g (1.2 ounces)
PCB thickness	0.062 +/- 0.007 inches
Top clearance	0.38 inches
Bottom clearance	0.00 inches
Mounting hole diameter	0.187 inches
Drop-in replacement for the Nellcor NP-404 and the Masimo MS-1 / MS-3	

Dolphin 601 connectors

JP2 - Probe interface (0.1" non-shrouded pin header)	
JP3 - Host interface (0.1" non-shrouded pin header)	
Power supply	
Reset signal	
Communications channels	

Dolphin 701

Size	89 x 51 mm (3.5 x 2.0 inches)
Weight	28 g (1 ounce)
PCB thickness	0.062 +/- 0.007 inches
Top clearance	0.19 inches
Bottom clearance	0.05 inches
Mounting hole diameter	0.125 inches
Drop-in replacement for the Masimo MS-5	

Dolphin 701 connectors

Custom probe and host interface	
Standard adaptors available	

Standard interface for clinical use

Streaming SpO ₂ , Pulse rate, Temperature °C (1 Hz)	
Streaming photoplethysmogram (27.5 Hz)	
Streaming sensor condition, System failure	

Sensors

Reusable finger clip, model 210 (Adult and Paediatric >30 kg)	
Reusable multi-site 'Y', model 320 (Adult and Paediatric >30 kg), Includes Model 921 Ear Clip accessory	
Reusable multi-site 'Y', model 360 (Paediatric and Neonatal ≤ 30kg)	
Disposable, model 520 (Adult and Paediatric >30 kg)	
Disposable, model 560 (Paediatric and Neonatal ≤ 30 kg)	
Yellow Springs temperature sensors or compatibles (Dolphin 701 only)	

Regulatory approvals

U.S. patents US05575284 and US05803137

Accuracy

SpO₂ (functional)

Adult or Paediatric >30 kg	70-100%	±2%
	0-69%	Unspecified
Neonate	70-100%	±3.5%
	0-69%	Unspecified

No motion and normal perfusion

Pulse rate (beats per minute)

Adult, Paediatric or Neonate	30-240 bpm	±3 bpm
No motion and normal perfusion		

SpO₂ (functional)

Adult or Paediatric >30 kg	70-100%	±3%
	0-69%	Unspecified

Motion or low perfusion <0.2%

Pulse rate (beats per minute)

Adult or Paediatric >30 kg	30-235 bpm	±5 bpm
Motion or low perfusion <0.2%		



Please contact Viamed for further details regarding:

- OEM 601 and 701 evaluation kits
- Research interface for clinical investigational use
- Dolphin 3000 Compact Flash OEM board

Specifications subject to change.

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