

MEDIAID

M15HP
OEM Board

SpO₂ – Pulse Rate – Waveform

**The Small OEM Board with
BIG Monitoring Performance**

Sensitivity

The M15HP is engineered to pick up signals that are as low as 0.1% perfusion.

Monitoring with DSP Technology

The M15HP Board uses digital signal processing technology for measuring oxygen saturation, and pulse rate. Signal filtering and complex noise analysis increases accuracy while decreasing measurement errors.

Serial Communication

The M15HP has a 5 pin connector containing a bi-directional TTL serial interface for communication, pulse beep, power, and ground. The serial output transmits status, oxygen saturation, pulse rate, plethysmographic waveform, two digitized spare analog channels, and control parameters.

Easy and Convenient Integration

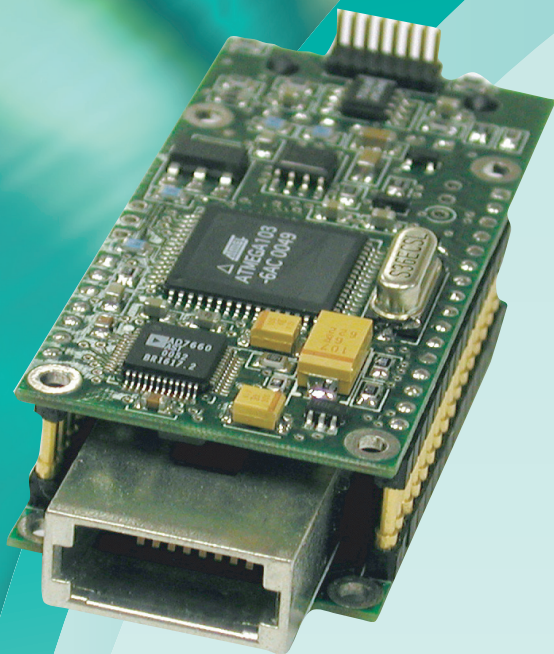
The M15HP fits into a small space behind a front panel. Connection and mounting holes are easily accessible for quick assembly of medical devices.

Smallest Size

The M15HP is just 2.3 inches (5.9 cm) x 1.2 inches (3.0 cm), making it ideal for compact medical equipment.

Excellent Technical Support

Mediaid Inc. provides extensive engineering support to OEM customers.



Model 15HP

(larger than actual size)

Product Information

M15HP Pulse Oximeter Board
PN/REF POX 010-M15HP

(%SpO₂, Heart Rate)

Includes: M15HP Board, Sensor of
Choice

M15HPE Pulse Oximeter
Evaluation Kit

PN/REF POX 101-M15HPE

Includes: M15HP, M15HPE Board,
Sensor of Choice, Serial Cable,
Interface Cable, Documentation,
Evaluation Software

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Equipment Specifications

Monitoring Performance

Range	SpO ₂	20 – 100%
	Pulse	25 – 250 bpm
Resolution	SpO ₂	1%
	Pulse	1 bpm
Accuracy	SpO ₂	70 – 100% ± 2
		60 – 69% ± 3
		<60% Unspecified
Response	Pulse	25 – 200 bpm ± 2 or 2% (whichever is greater)
		200 – 250 bpm ± 3%
	SpO ₂	8 seconds for 80% of patients
	Pulse	8 seconds for 80% of patients
	Perfusion Rate	0.1% to 20%
	Digital Pleth Waveform:	Centered at 512, norm is 512 counts peak-to-peak

Sensors

Mediaid Inc Pulse Oximetry Sensors with Compushield® Connector
Mediaid Inc Veterinary Sensors with Compushield® Connector

Serial Interface

Level	+ 5V TTL
Protocol	Bidirectional RS-232 Format
Baud Rate	19200
Data Field	8 bits
Stop Bits	1
Parity	None

General

Dimensions

M15HP	2.3L x 1.2W x 0.9H in 5.9L x 3.1W x 2.3H cm
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Power Source

External	4.8V to 16.5V 10 mA RMS Max Ripple 0.2V
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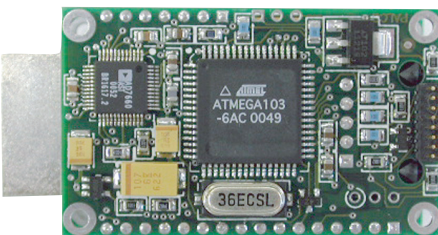
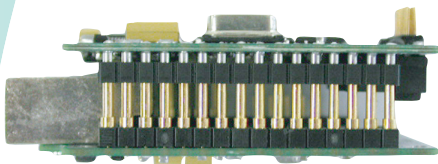
Environmental Conditions

Operating Conditions

Atmospheric Pressure	795 – 526 mmHg
	1060 – 700 hPa
Relative Humidity	5 – 95% (Non Condensing)
	Temperature

Storage & Transport Conditions

Atmospheric Pressure	795 – 375 mmHg
	1060 – 500 hPa
Relative Humidity	10 – 100%
	Temperature



M15HP
(shown actual size)