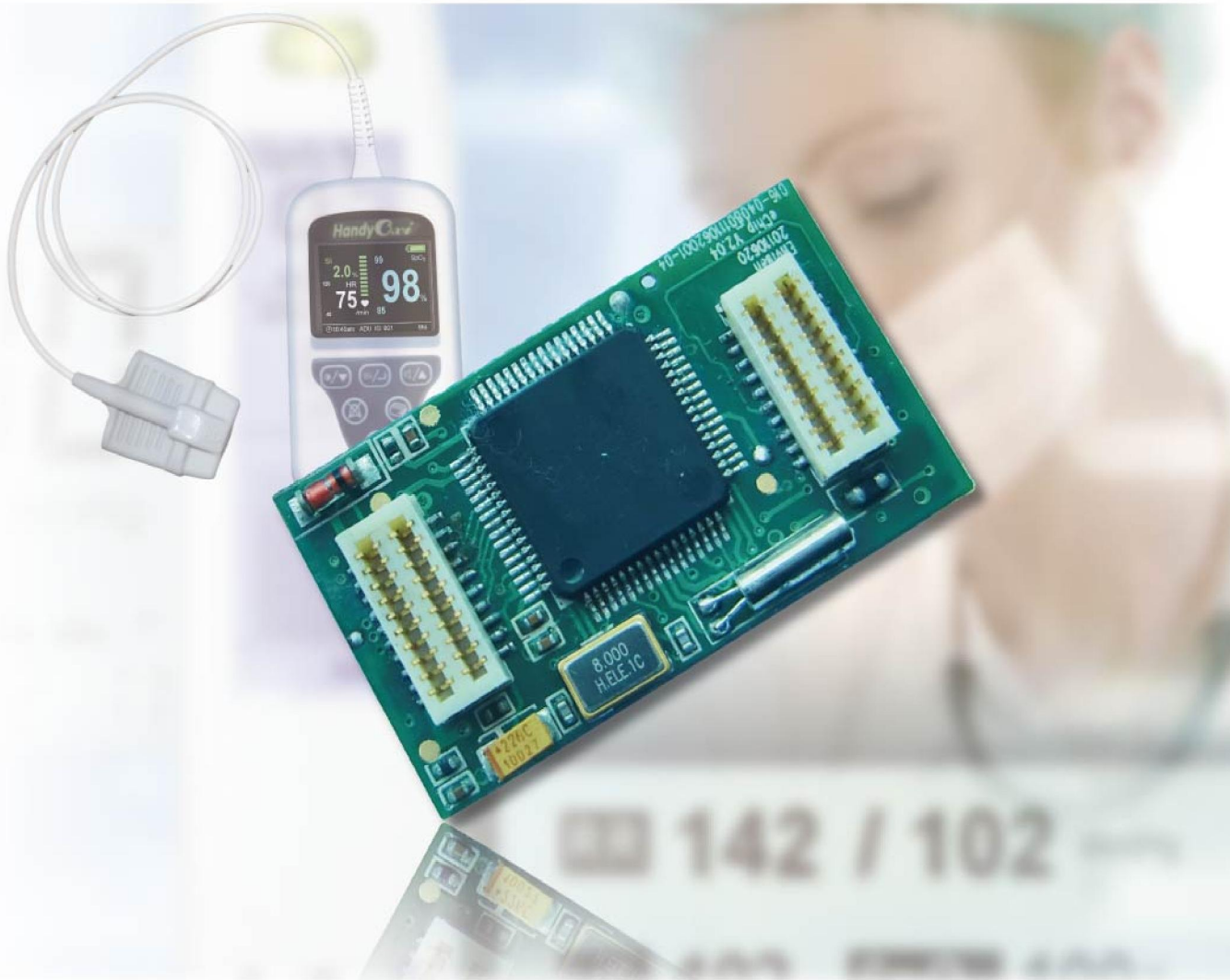




● eChip<sup>®</sup> —the oximetry module you can trust



- **Small Size and low power consumption make eChip ideal for battery powered mobile applications.**
- **Excellent low perfusion performance, down to 0.05%**
- **Accuracy has been validated by Bickler Lab at University of California San Francisco**
- **A full range of sensors is available to suit all monitoring situations**



## Applications

- Emergency / transport
- Ambulatory Care
- ICU / OR monitoring
- Spot Check
- Home Care

## Technical specifications

### Operating conditions

Parameter	Test conditions	Range			Unit
		Min.	Typ.	Max.	
Power supply		2.5	3.3	3.6	V
Current consumption @ working	Vcc=3.3V	8	8	25	mA
Current consumption @ sensor off	Vcc=3.3V	-	3	-	mA
Baud rate		-	9600n/0/1	-	-

### Pulse oximeter specifications

Parameter	Test conditions	Range			Unit
		Min.	Typ.	Max.	
SpO2 range		0	-	100	%
SpO2 accuracy	70-99% <70%	-	+/-2 Monotonic	-	%
SpO2 resolution		-	1	-	%
Pulse rate range		30	-	240	BPM
Pulse rate accuracy		-	-	±3	BPM
Pulse rate resolution		-	1	-	BPM
Perfusion range		0.05	-	20	%
SpO2 averaging		-	-	-	
Stable			16		Pulses
Normal			12		
Sensitive			6		
Motion artifact		-	Not Specified	-	/
Signal index		-	Normal Reduced Poor	-	
Pulse wave		0	-	255	LSB
Pulse bar		0	-	15	LSB

### Other specifications

Parameter	Test conditions	Range			Unit
		Min.	Typ.	Max.	
Temperature: Operation		-20	-	+60	°C
Temperature: Storage		-30	-	+70	°C
Operating humidity	Non Condensing	0	-	90	%
Storage humidity	Non Condensing	0	-	90	%
Dimensions		-	18 X31 X 6	-	mm
Weight		-	2	-	g

### Sensor status and error messages

Type	Description
Monitoring status	Searching for pulse
	Monitoring
	Sensor off
	Sensor disconnected
Error messages	High motion artifact
	Too much ambient light
	Excessive current
	Sensor fault
	Sensor short (current)
	Over voltage
	Module error

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