



# okti

Everything You Want.  
Simple. Portable.  
Wireless and High Definition.

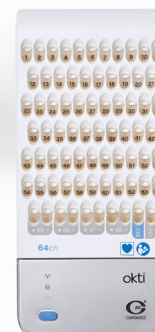
## One device - multiple studies

Okti® is the culmination of decades of experience in EEG monitoring and a deep understanding of patient care.

Okti is the world's first high-density portable EEG amplifier that can also be used for Routine and Long Term EEG. By combining several different channel interfaces into a compact hand-held format, Okti's wireless capabilities and high-definition capabilities improve the clinical and patient experience within the clinic or hospital with the flexibility to be mobile.



okti32



okti64



okti128



# Technical specifications

## INPUTS

<b>Okti32</b>	32, DC-coupled, fully isolated, referential (monopolar); 8 user-defined, DC-coupled, fully isolated, bipolar inputs
<b>Okti64</b>	64, DC-coupled, fully isolated, referential (monopolar); 4 user-defined, DC-coupled, fully isolated, bipolar inputs
<b>Okti128</b>	128, DC-coupled, fully isolated, referential (monopolar); 8 user-defined, DC-coupled, fully isolated, bipolar inputs

**INPUT IMPEDANCE** >100 MΩ all channels

**BIAS CURRENT** typically 1nA

**INPUT NOISE** < 2µVpp typical (referential ch)

**INPUT RANGE** 300mVpp, 600mVpp, 1200mVpp, 3000mVpp user selectable

**CMRR** > 100dB

**CROSSTALK** <- 60dB to adjacent channels FSR

**HIGH PASS FILTER** DC coupled on all channels

**LOW PASS FILTER** (3dB):  
71 Hz at 256 s/s  
143 Hz at 512 s/s  
284 Hz at 1024 s/s  
580 Hz at 2048 s/s  
1150 Hz at 4096 s/s

**NOTCH FILTER** Software based display filtering of 50Hz, 60Hz, or off

## ISOLATION SPECIFICATIONS

Complies with IEC 60601-1 CF patient Inputs

## ANALOGUE TO DIGITAL CONVERTER

24 bit resolution

## SAMPLE AND DATA RATES

Data sampled at 16384 samples per second and decimated to data rates shown below. Actual data rate sent is determined by controlling PC software application.

**Output data rate** 4096, 2048, 1024, 512 or 256 samples per second

## COMMUNICATION INTERFACE

### Wi-Fi Interface

**Type** IEEE 802.11a, 802.11b, 802.11g and 802.11n compatible  
**Frequency** 2.4 GHz and 5 GHz  
**Antenna** Dual internal with diversity support  
**Encryption** WEP with PSK or WPA3 with PSK or 802.1x authentication

### Bluetooth Interface

**Type** Bluetooth 4.1 compliant  
**Frequency** 2.4 GHz  
**Protocol** Dual mode Bluetooth and Bluetooth LE  
**Devices** Bluetooth oximeter, Bluetooth event button, Location beacon

### Wired Ethernet Interface

**Type** IEEE 802.3/802.3u Ethernet, auto MDIX Requires an IEEE 802.3af compliant switch or mid-span power injector and Okti network isolator

**Data rate** 10 or 100 M bit/second

**Supported protocols** IPv4 including UDP, TCP, DHCP, ARP and ICMP

### Multi-Okti Support

### EVENT BUTTON CHANNEL x 1

**Type** Momentary contact push button  
**Storage rate** User selectable, one of 256, 512, 1024, 2048 or 4096 sample/second

### TRIGGER MODULE CHANNEL

**Type** Compumedics proprietary format, supports 8 input bits (up to 255 trigger levels)  
**Storage rate** User selectable, one of 256, 512, 1024, 2048 or 4096 sample/second

## DIMENSIONS

Component	Size Width x Height x Length	Weight
<b>Base Unit with Acquisition Module</b>	84mm x 43mm x 184mm	400gm battery not fitted 700gm battery fitted
	3.307" x 1.693" x 7.24"	14.1oz. battery not fitted 24.69oz. battery fitted
<b>Protective Case</b>	97mm x 72mm x 210mm 3.81" x 2.83" x 8.26"	250gm 8.81oz.

## ENVIRONMENTAL REQUIREMENTS

**Temperature** Ambient operating temperature range: 0°C - 40°C (32°F - 104°F)  
Storage temperature range: -10°C - 50°C (-4°F - 122°F)

**Humidity** 20% - 90%-relative humidity (non-condensing)

**Altitude** Less than 3,000m

## ELECTRICAL SPECIFICATIONS

### Power Supply

#### Main Battery

**Type** Rechargeable Lithium-Ion  
**Nominal voltage** 11.25 volts  
**Nominal capacity** 6400 mAh  
**Life expectancy** > 300 charge/discharge cycle at 23 °C

#### Backup Battery

**Type** Rechargeable Nickel-Metal Hydride  
**Nominal voltage** 7.2 volts  
**Nominal capacity** 150 mAh  
**Life expectancy** > 1 year

### Network Isolator

**Power source** Any power over Ethernet network switch or mid-span power injector that complies with both IEEE 802.3af and any applicable ISO or IEC safety standard.

**Operating voltage** 48 volts

**Power consumption** < 4 watts (when connected to Okti)