



okti

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

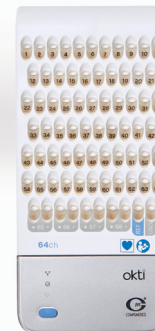
One device - multiple studies

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

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

INPUT IMPEDANCE >100 M Ω all channels

BIAS CURRENT typically 1nA

INPUT NOISE < 2 μ Vpp 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
Base Unit with Acquisition Module	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
Protective Case	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)