EDGE

EDGE Pharma Cellular

Part **EDCLPH**

The EDGE Pharma Cellular + WiFi Datalogger & Alarm is an advanced IoT monitoring solution meticulously engineered to meet stringent compliance requirements within pharmaceutical, vaccine, and cold chain applications. It comes equipped with two (2) NIST-traceable external temperature probes, in a logger designed in compliance with NSF/ANSI 456, the vaccine-storage standard. This robust device features comprehensive alarm capabilities, including visible and audible alerts, alongside remote notifications via email, SMS, and phone calls.

At a glance

MEASURES
Ambient Temperature, Relative Humidity, Temperature Probe, Digital Input

CONNECTIVITY
WiFi 2.4 GHz · LTE-M / NB-IoT · Bluetooth LE

BATTERY LIFE
Up to 2 years on 4 × AA

INTERNAL MEMORY
49,000 records of each measured parameter

RECORDING INTERVAL
1 to 30 minutes

INGRESS PROTECTION
IP31

Ports and connectivity

Port I
Temperature Probe

Port II
Dry Contact / Flood

Port III
Temperature Probe

Connectivity
WiFi 2.4 GHz · LTE-M / NB-IoT · Bluetooth LE

Built-in sensors

SENSOR	RANGE	ACCURACY	RESOLUTION
Ambient Temperature Built-in · Record & Alarm	-20 °C to +70 °C (-4 °F to +158 °F)	±0.2 °C (±0.36 °F)	0.1 °C (0.2 °F)
Relative Humidity Built-in · Record & Alarm	0% to 99% non-condensing	±3% RH (Sensirion SHT40)	1%

Plug-in sensors

SENSOR	RANGE	ACCURACY	RESOLUTION	CABLE
Temperature Probe (NIST-traceable certificate) Detachable · Included · Record & Alarm	-20 °C to +50 °C (-4 °F to +122 °F)	±0.5 °C (±0.9 °F) (DS18B20 sensor)	0.1 °C (0.2 °F)	1.5 m (4.9 ft)
Digital Input (Dry Contact / Flood) Detachable · Optional · Alarm	–	-	-	Up to 100 m (330 ft)

RECORDING, LF CLOUD AND POWER

Internal memory	49,000 records of each measured parameter
Recording interval	1 to 30 minutes
Cloud sync interval	10 minutes to 7 days (alarms are sent immediately, whatever the interval)
Battery life	Up to 2 years on 4 × AA (depending on settings, reception, ambient temperature, battery quality, alarms, buzzer and BLE)
External power	USB-C 5 V DC (supply not included)

ENCLOSURE AND ENVIRONMENT

Dimensions (L × W × H)	104 × 88 × 30 mm (4 3/32 × 3 15/32 × 1 3/16 in)
Net weight	233 g (8.2 oz)
Operating temperature	-20 °C (-4 °F) to +70 °C (158 °F)
Display update range	0 to +50 °C (32 to 122 °F)
Ingress protection	IP31 (housing, protected against dripping water, not waterproof)
Probe extension	Up to 16.5 m (54 ft) in total, including the 1.5 m (4.9 ft) probe lead: up to five 3 m (10 ft) AUDEX3 extensions; keep two probe runs within 3 m (10 ft) of each other
Probe drift	About 0.01 °C (0.02 °F) per year between -20 °C and +25 °C (-4 °F and +77 °F)

WIRELESS AND COMPLIANCE

Compliance	FCC, IEEE 802.11 b/g, NIST traceable, RoHS, CE (EN 61326-1 and EN 61010-1, 3rd edition)
WiFi	IEEE 802.11 b/g/n, 2.4 GHz · Contains FCC ID 2AC7Z-ESPWROOM32
Cellular	LTE with 3G/2G fallback (built-in global eSIM) · Contains FCC ID 2AJYU-8VC0001

MORE FEATURES

Alarm indication	Audible and visual on-device alarms, designed in compliance with NSF/ANSI 456, the vaccine-storage standard

Good to know

- Each probe sits in a bottle of food-grade ethanol that simulates the thermal mass of a vaccine dose; the probe range of -20 °C to +50 °C (-4 °F to +122 °F) comes from the ethanol. A glycol fill is available on request.
- Each probe comes with a manufacturer-issued certificate from a 1-point test at a point between -2 °C and +2 °C (28 °F and 36 °F). The certificate is valid 3 years in use (5 years on the shelf). For multi-point calibration or an accredited laboratory certificate, please contact LoggerFlex Support.

Request a quote →

Sold and supported through LoggerFlex distributors. An engineer replies within one business day.

sales@loggerflex.com **1-888-365-8880** **www.loggerflex.com/en/product/edge-pharma-cellular**

Product page, manuals and LF Cloud setup