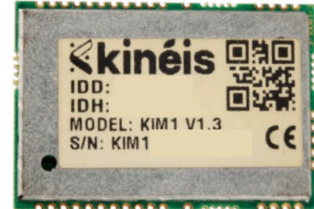




Kinéis' direct-to-satellite IoT connectivity service opens a whole new world of possibilities: available everywhere, simple, reliable, low power and affordable, our unique technology serves multiple use cases, remote assets, infrastructure, agriculture, logistics and environmental around the globe.

## KINEIS MODULE - KIM 1

The KIM family is a high-quality designed line of products with a small form factor targeting industrial applications. Kinéis module (KIM1) is a low-power transmitter offering worldwide satellite connectivity to IoT devices.



### CHARACTERISTICS - SPECIFICATIONS

#### Mechanical characteristics

|         |                                |
|---------|--------------------------------|
| Package | Surface-mount module (37 pins) |
| Size    | 31.2 x 21 x 3,5 mm             |
| Weight  | 3g                             |

#### Data transmission

|                      |                           |
|----------------------|---------------------------|
| Communication        | One-way Transmission only |
| Frequency Band       | 399.10 - 401.680 MHz      |
| Modulation Method    | Bi-phase PSK +/-1.1 rad   |
| Data rate            | 400 bits/s                |
| Typical payload size | 23 Bytes                  |
| Typical transmission | <1s                       |

#### Electrical characteristics

|                   |  |
|-------------------|--|
| Supply Voltage    | 4.5V - 5.5V, typ. 5V (Internally regulated)              |
| Power consumption | 500mA@Tx mode  |
| Output            | 30dBm nominal output power; adjustable power 20dBm-30dBm |
| Idle mode         | 5mA  |

#### Interfaces

|               |   |
|---------------|---|
| RF Connection | Board edge connector                    |
| Protocol      | UART                                    |
| Instructions  | AT commands                             |
| On/Off pin    | LDO controlled switch off (< 2 $\mu$ A) |

### CHARACTERISTICS - ENVIRONNEMENT MONITORING



#### Temperature

Operating  
-20°C to +55°C

Storage  
-40°C to +90°C



#### Humidity

10% -90% non-condensing

### CERTIFICATIONS



#### Certification

CE, CNES, FCC

This document and Kinéis products can be subject to changes, improvements or modifications. Partners should ensure that are in possession of the latest relevant information about Kinéis connectivity.  
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