KeyAdvanced Kit

KF01380

Multi-brand fleet management system

Function

The system, installed on vehicles such as self-propelled industrial trucks or electric traction industrial vehicles, with endothermic or hybrid engines compliant with the 2006/42 / EC machinery directive, is able to perform the following functions:

- Satellite localisation
- Shock detection
- Battery analysis

- Access control
- Data transmission via SIM GPRS 2G, LTE-M, WiFi

Directives and reference

Electromagnetic Compatibility Directive 2014/30/EU

Directive RED 2014/53/EU

UNI EN 12895:2019 Industrial trucks - Electromagnetic compatibility

and related standards / ETSI standards

Kit general information				
Products		**Accessories**		**Weight**
Code	**Description**	**Code**	**Description**	
XF01380	KeyAdvanced	R100010	Badge RFID - UID	520 g 18 oz
X400512	KeyDN	C002190	2-strand skein	
		C002340	Vehicle wiring	
R100070	GPS/GLONASS/BeiDou/QZSS/Galileo Antenna *Prod*: 2J Antennas *Model*: 2J4D01MPCFz	C002080	KeyTouch wiring	

Technical data - KeyAdvanced XF01380

Mechanical specifications

Sizes	100/121 x 62 x 30 mm 3,9/4,8 x 2,4 x 1,2 in	Material	ABS
Weight	300 g 10,6 oz		

Electrical specifications

Power supply (Vdc)	min	typ.	max	Consumption(W)		typ.	max
	4,5	5	5,5			1	2,5
Int. battery 1C Lipo 3,7V	550 mAh			Batteria RTC	40 mAh		

Micro memory slot SD (FAT, FAT16, FAT32)
Slot for SIM card
Triaxial accelerometer
Int. battery charger with maintenance function
NFC reader

MTTFd
Values indicated per device and per system (KeyAdvanced and KeyDN)

MTTFd Device	39 years	MTTFd System	15,5 years

Interfaces

CAN BUS (2A & 2B)
USB (Device)

Technical data - KeyAdvanced XF01380

GPRS/LTE - GPS/GNSS Module

Power output from 1 to 2 W

2G	850/900/1800/1900 Mhz
4G	2100/1900/1800/AWS 1700/850/900/700/800/850/700 Mhz

Wi-Fi Module

FCC/CE/IC Certified 2.4-Ghz IEEE 802.11b/g Transceiver

Channels Receive Sensitivity from 1 to 14 -83 dBm

Operational indicators/principles

Logout	Steady red LED	Authentication in progress	Steady yellow LED
Alarm	Flashing red LED	Warning	Flashing yellow LED
Login/Operational	Steady green LED	Auto-logout	Flashing green LED Steady yellow LED
RFID authentication	Steady blue central LED	RFID correctly detected	Steady central green LED
Bootloader	Steady red, yellow, green LEDs	Buzzer	Intermittent on alarms or warnings Prolonged sound (1 s) when powering up for the first time

Technical data -KeyDN X400512

Mechanical specifications

Sizes	85/110 x 56 x 21 mm 3,3/4,3 x 2,2 x 0,8 in	Material	ABS
Weight	210 g 7,4 oz		

Electrical specifications

Power supply (Vdc)	min	typ.	max	Consumption (W)		typ.	max
	10	24	120			3	12

MTTFd
Values indicated per device and per system (KeyAdvanced/KeyTouch e KeyDN)

MTTFd Device	26 years	MTTFd System (KeyAdvanced)	15,5 years
		MTTFd System (KeyTouch)	15 years

Input/Output

2 x Positive Inputs (Activation threshold > 1,7 V, Max 150 V)

1 x Positive Input (Range 0 - 5 V)

1 x Positive Input (Range 0 - 10 V)

2 x Negative Inputs (Activation threshold < 0,5 V, Max 150 V)

3 x Relè NO (Max 10 W)

Memory/Processor

Flash	256 KB	RAM	64 KB
Eeprom	128 KB	Processor frequency	from 0,032 to 120 MHz