

KeyTouch Kit

KF01380D

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
- Check list
- Anomalies reporting
- Messaging with driver

Directives and reference

Electromagnetic Compatibility Directive 2014/30/EU

Directive RED 2014/53/EU

Electromagnetic compatibility

UNI EN 12895:2019 Industrial trucks

and related standards / ETSI standards

Kit general information

Products		Accessories		Weight
Code	Description	Code	Description	
XF01380D	KeyTouch	R100010	Badge RFID - UID	930 g 33 oz
X400512	KeyDN	C002190	2-strand skein	
G006410	RAM Mount <i>Prod:</i> RAM Mounts <i>Model:</i> RAM-B-138U	C002340	Vehicle wiring	
R100070	GPS/GLONASS/BeiDou/QZSS/Galileo Antenna <i>Prod:</i> 2J Antennas <i>Model:</i> 2J4D01MPCFz	C002080	KeyTouch wiring	

Technical data - KeyTouch XF01380D
Mechanical specifications

Sizes	150 x 93 x 35 mm 5,9 x 3,7 x 1,4 in	Material	ABS
Weight	400 g 14 oz		

Electrical specifications

	min	typ.	max		typ.	max
Power supply (Vdc)	4,5	5	5,3	Consumption(W)	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	37 years	MTTFd System	15 years
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Interfaces

CAN BUS (2A & 2B)

USB (Device)

Technical data - KeyTouch XF01380D
GPRS/LTE - GPS/GNSS Module

Power output from 1 to 2 W

2G 850/900/1800/1900 Mhz

2100/1900/1800/AWS

4G

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

Display

Sizes	109 mm 4,3 in	Number of dots	480 x 272
Surface treatment	Anti-Glare	Touch panel	Capacitive
Surface luminance	500 Cd/m ²		

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

	min	typ.	max		typ.	max
Power supply (Vdc)	10	24	160	Consumption (W)	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