



NB-IoT Smart Padlock Presentation

November 2021



NB-IoT smart padlock

Connected access for anywhere without Wi-Fi



For distributors

1. Resell hardware and SaaS
2. Bundle with your existing products for increased sales
3. Create new IoT partnership opportunities
4. Open new revenue streams (e.g SLA's, install fees)
5. Enter new markets



For end users

1. Improve security of assets
2. Save time and money by removing metal key management
3. Meet Government regulations and compliances (e.g OH&S, PCI)
4. Increase visibility (know who is where at anytime)
5. Capture data and add AI

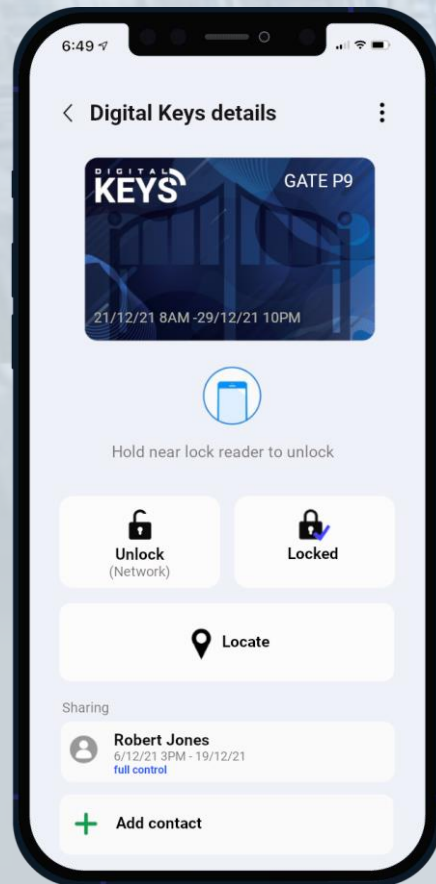
Compare Access Control Systems

	NB-IoT	Wi-Fi/BLE	RFID Keycard
Timed Access Control	✓	✓	✓
Internet Connected	✓	✓	✗
No set up costs	✓	✗	✗
No onsite power	✓	✗	✗
No onsite equipment	✓	✗	✗
Long battery life	✓	✗	✗
Many locks 1 account	✓	✗	✓
Mobile Network security	✓	✗	✗

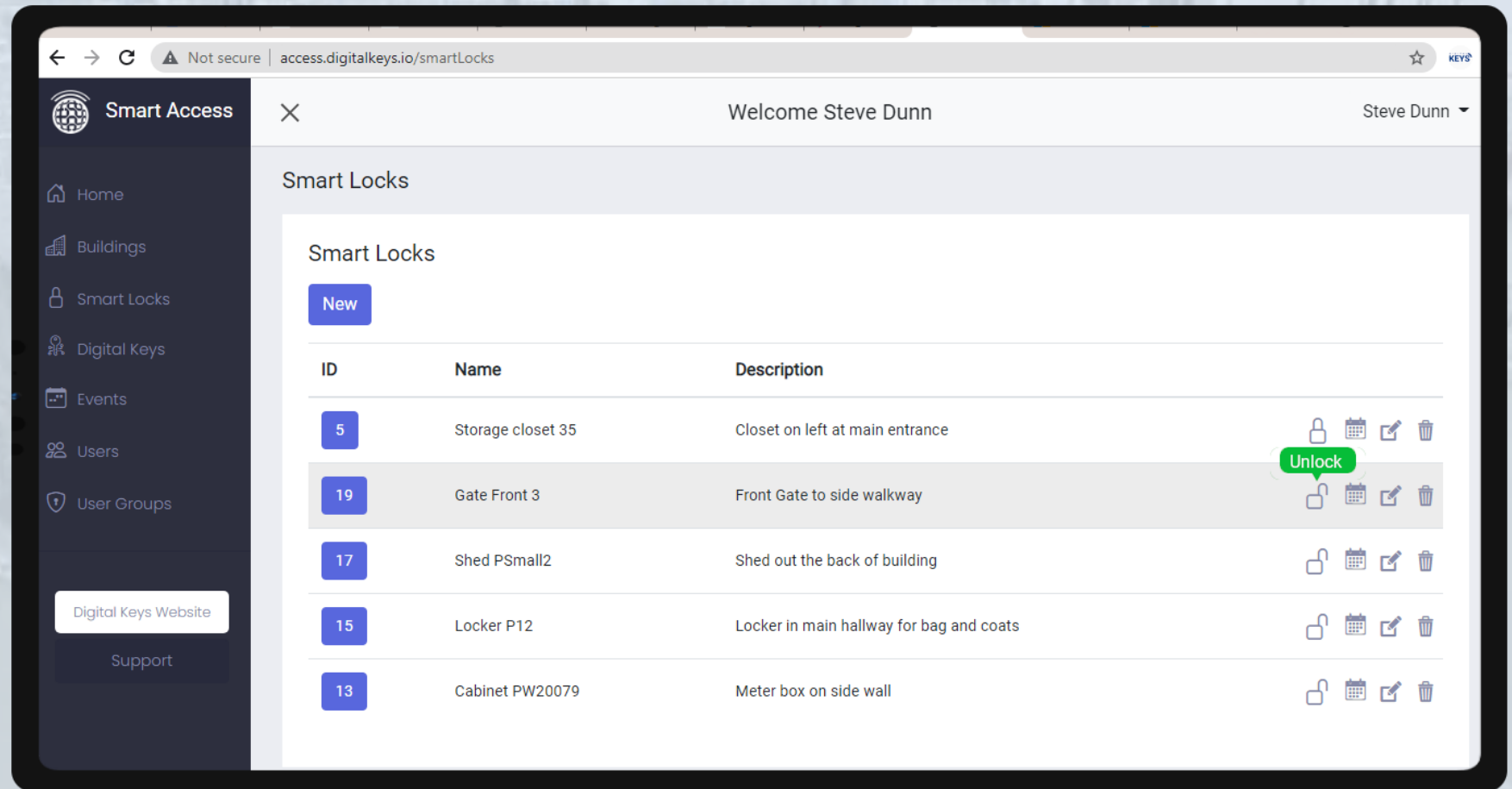
6 methods of unlocking



*NB-IoT network is used once to program lock for time-sensitive unlocking with specific users



Digital Keys App unlock
(NB-IoT/NFC)



Smart Access Management Software

← → ↻ ⚠ Not secure | access.digitalkeys.io/digitalKeys/register

☆ KEYS

DIGITAL KEYS

Smart Access

Home

Buildings

Smart Locks

Digital Keys

Events

Users

User Groups

Digital Keys Website

Support

×

Welcome Steve Dunn

Steve Dunn ▾

Create a Digital Key

Description

Technician maintenance

Select Smart Lock

ID: 13 | Name: Cabinet PW20079 | Address: 56 Cleveland Terrace, 5013 AU ▾

Select date and time range

2021-10-21 10:30 - 2021-10-21 11:30

Select users

User	Name	ID
<div>steve@digitalkeys.co ▾</div>	Steve Dunn	9
<div>+ </div>		

Select roles

Smart Access Management Software

Designed to last



In-built iSIM card and Telit
310G module (modem)



Weatherproof casing with
armored glass numberpad



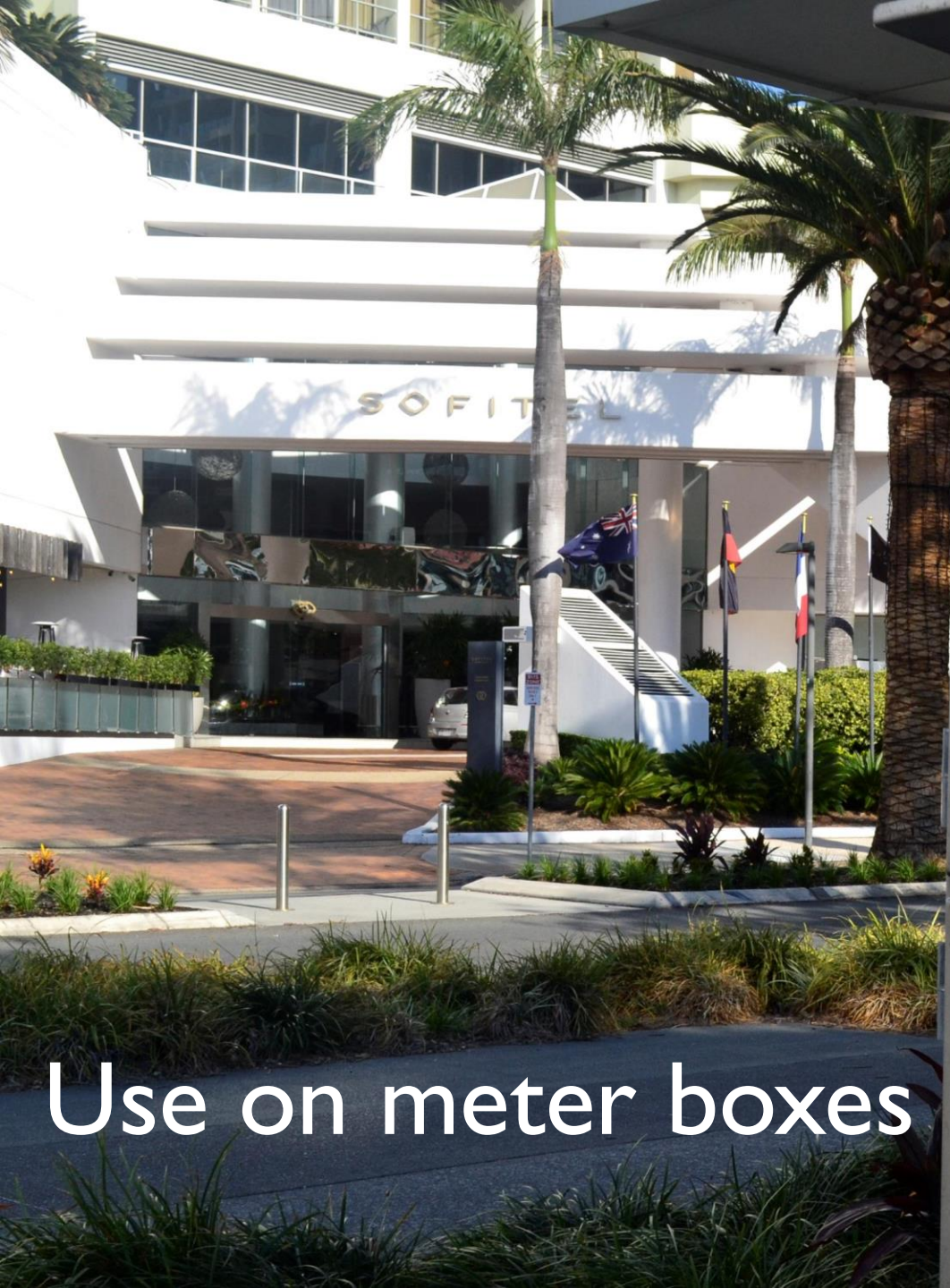
2 x 18650 Li-on batteries
Approx 2 years battery life

Use on lockers
and cabinets





Use on gates



Use on meter boxes

Features



NB-IoT Module

Telit 310G supports NB-IoT, LTE-M, CAT-M, and 2G/3G fallback



iSIM card

Embedded or with holder. Provided by MNO integrated to SIM provisioning platform



Over-the-Air Updates

Updates firmware configurations over the internet directly to smartlock



Event notifications

Live event notifications so you always knows who opened which lock at what time



Certified

Meets 3GPP release 13 and 14 for NB-IoT devices - completed certification testing



Anti-tampering alarm

Motion sensor detects any unusual movement or force



Warranty

5 years on software and hardware in addition to 24hr tech support



Inbuilt acoustic alarm

If thief attempts to break open, sounds audible alarm/sends phone alerts



Management Software

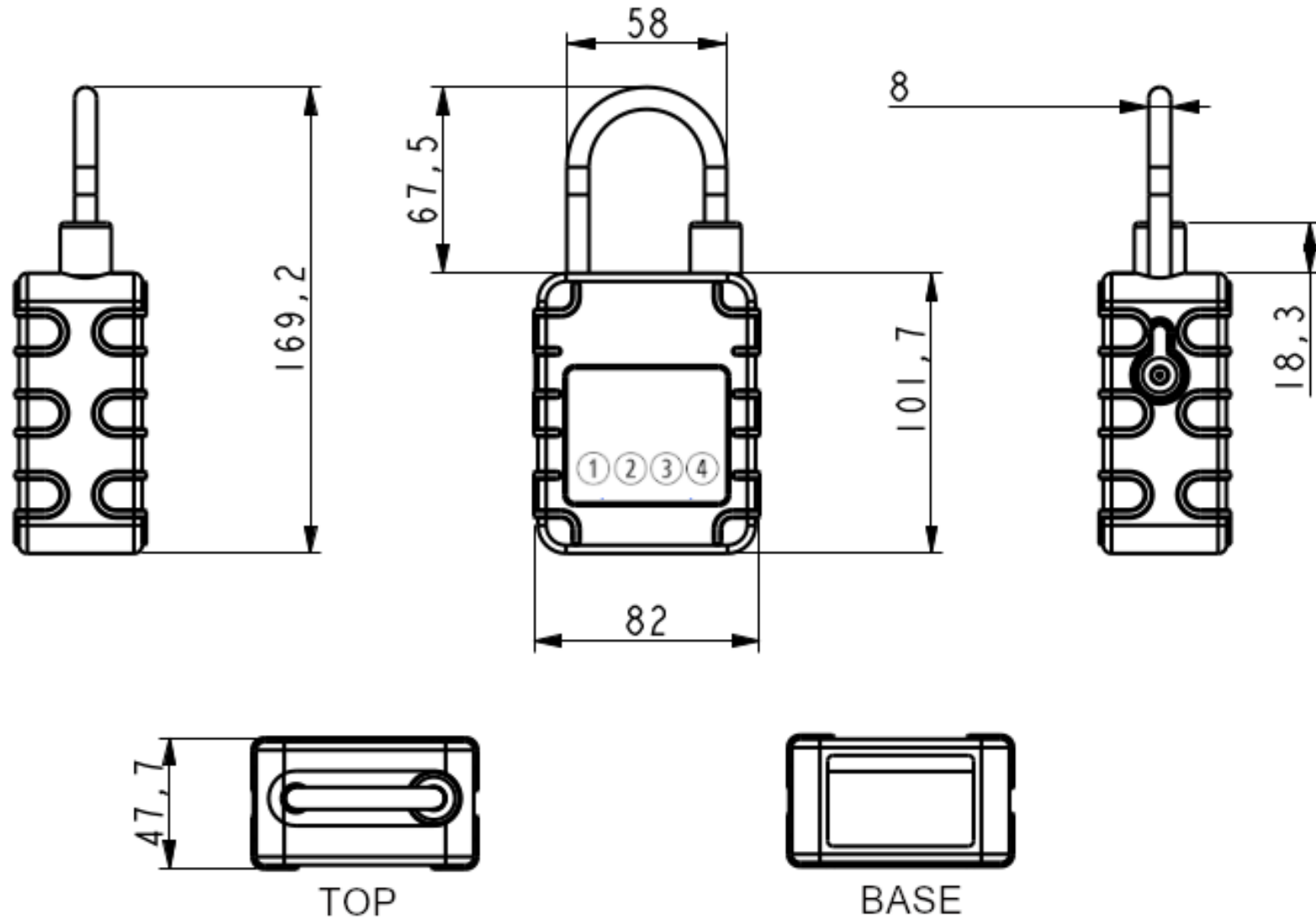
Customer facing access management software packed with features



Smartphone app

Time-sensitive digital keys unlocking over NB-IoT network. App also shows live events, status

Size



Specifications



Device Type

NB-IoT smart padlock

Materials

Stainless steel casing, Armoured glass numberpad

Communications

NB-IoT/LTE-M Network. Fallback 4G/3G with Telit 310G1WW module and nano IoT SIM card (built-in)

Batteries

2 Li-ion batteries (18650 2500mAh 3.7V) (approx 5 years life (5 activations a day))

Dimensions

H169mm x W 82mm x D 47.7mm



Latency

Approx 2 seconds.

Software

Digital Keys Smart Access Management - cloud based software account (hosted at AWS)

Unlocking methods

Digital Keys app (iOS) and Android - download for free from app stores; NFC cards, cloud-based software, time sensitive PIN

Requires

1-2 year connectivity plan \$3 per month (paid annually)

Warranty

1 year (can be extended to 5 years)



For more information

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<https://www.digitalkeys.io/>