Mobile security consumer

Multiple Secure Applications

Secure Connectivity  Digital Car Key  Payment  NFC Wireless Charging  Ticketing
A full range of NFC & secure elements and eSIM

To address multiple secure transactions in mobile

<table>
<thead>
<tr>
<th>ST33 eSIM, SIM, eSE</th>
<th>ST21NFC controller</th>
<th>ST54 convergence</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Up to 2MBytes Flash</td>
<td>• Boosted for tiny &amp; metal cover antenna</td>
<td>• ST33 eSE, eSIM + ST21NFC</td>
</tr>
<tr>
<td>• Multi-packages (WLCSP, MFF2, DFN8)</td>
<td>• Reduced BOM</td>
<td>• SiP BGA and single chip WLCSP</td>
</tr>
<tr>
<td>• GSMA SAS-UP certified flow</td>
<td>• Low Power mode</td>
<td>• GSMA SAS-UP certified flow</td>
</tr>
<tr>
<td>• EMVCo, CC EAL5+, MTPS</td>
<td>• Card emulation, Reader &amp; P2P</td>
<td>• EMVCo, CC EAL5+, MTPS</td>
</tr>
<tr>
<td>#1 eSIM</td>
<td>Best-in-class performance</td>
<td>• MIFARE® &amp; FeliCa®</td>
</tr>
</tbody>
</table>

All-in-one solution
A full range of eSIM, SIM and NFC/SE for Mobile

Tailored to support OEM eSIM and OEM Wallet strategy

**ST33 eSIM**: #1 source at Tier 1 OEMs
- Few hundred millions shipped to date
- GSMA SAS-UP certified since 2019

**ST54 NFC+SE**: reference in Android ecosystem
- Recognized RF performances
- Single die WLCSP form factor (ST54J, ST54K)
- eSIM convergence support (flagships)
- Support of UWB Secure Transactions

**ST21NFC Controller**: validated by most Tier 1 OEMs
ST33 eSIM: #1 in consumer eSIM

Leading the eSIM market adoption

**ST partners**
- Partnership with major eSIM OS developers
- 450 Worldwide Mobile Telecom Operators
- 300+ digitalized subscriptions
- 300+ compatible eSIM Management Platform

**ST positioning**
- Pioneer of Consumer eSIM deployment
- ST market share > 80% in 2020*
- Few hundred millions shipped to date
- Selected by all Tier 1 OEMs
- Android, iOS, Windows

Source: * ST estimates

## ST33 eSIM

- #1 in consumer eSIM
- ST market share > 80% in 2020*
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### Standards

- Partnership with major eSIM OS developers
- 450 Worldwide Mobile Telecom Operators
- 300+ digitalized subscriptions
- 300+ compatible eSIM Management Platform

### ST partners

- ST participation to key Industry Standards

### ST positioning

- #1 eSIM

Source: * ST estimates
NFC Controller solutions

Validated by most Tier-1 OEMs

- Payment, transport, access control, gaming
- For multiple devices, smartphone, wearables, console

ST positioning

- Validated by most Tier-1 OEMs
- Integrated in Tier-one OEMs
- Best-in-class RF performance
- Reduced bill of material & power consumption
ST54 NFC + Secure Element solutions

ST54 NFC/SE, reference solution in Android ecosystem

<table>
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<th>Market</th>
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<tbody>
<tr>
<td>• NFC/SE market opportunities :</td>
</tr>
<tr>
<td>• Combining NFC/eSE or NFC/eSE/eSIM</td>
</tr>
<tr>
<td>• For multiple application and devices</td>
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<th>ST positioning</th>
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<tr>
<td>• Volume production at various Tier-one OEMs</td>
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<tr>
<td>• #1 Felica, MIFARE® integration in Android framework</td>
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<td>• Best-in-class RF performance</td>
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<td>• Reduced bill of material &amp; power consumption</td>
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ST54 NFC/SE, reference solution in Android ecosystem
Mobile security takeaways

• ST33 eSIM undisputed leader
• ST54 NFC/SE in MP at Tier-1 OEMs
• Partnership with major OS vendors
• STPay-Mobile ticketing and payment service