

Secure Over-the-Air (OTA) Updates Using LTSCCT SAC20 Modules



In today's connected product landscape, **security, uptime, and lifecycle cost** are decisive buying criteria. Devices deployed in the field often across hundreds or thousands of locations must remain secure, compliant, and operational for many years.

Secure Over-the-Air (OTA) updates are therefore a business-critical capability, not merely a technical feature.

The **LTSCCT SAC20 Smart Module**, from LTSCCT, is designed to deliver secure, reliable, and scalable OTA updates, helping organizations reduce operational risk, control costs, and future-proof their connected products.

Why Secure OTA Matters to Customers?



Old Way



New Way

From a customer's standpoint, OTA directly impacts core business outcomes:

- ✓ **Lower OPEX** – Eliminates repeated on-site firmware updates
- ✓ **Improved uptime** – Minimizes service disruption across deployed fleets
- ✓ **Security risk reduction** – Enables rapid patching of vulnerabilities
- ✓ **Regulatory and customer compliance** – Supports evolving cybersecurity requirements
- ✓ **Brand and customer trust** – Prevents large-scale failures and security incidents

An insecure or unreliable update mechanism can result in downtime, recalls, or reputational damage each with significant financial consequences.

Business Value of Secure OTA with the SAC20



1. Reduced Field Maintenance Costs

The SAC20 enables remote firmware and software updates, removing the need for physical device access. For large-scale deployments, this translates into substantial long-term cost savings.

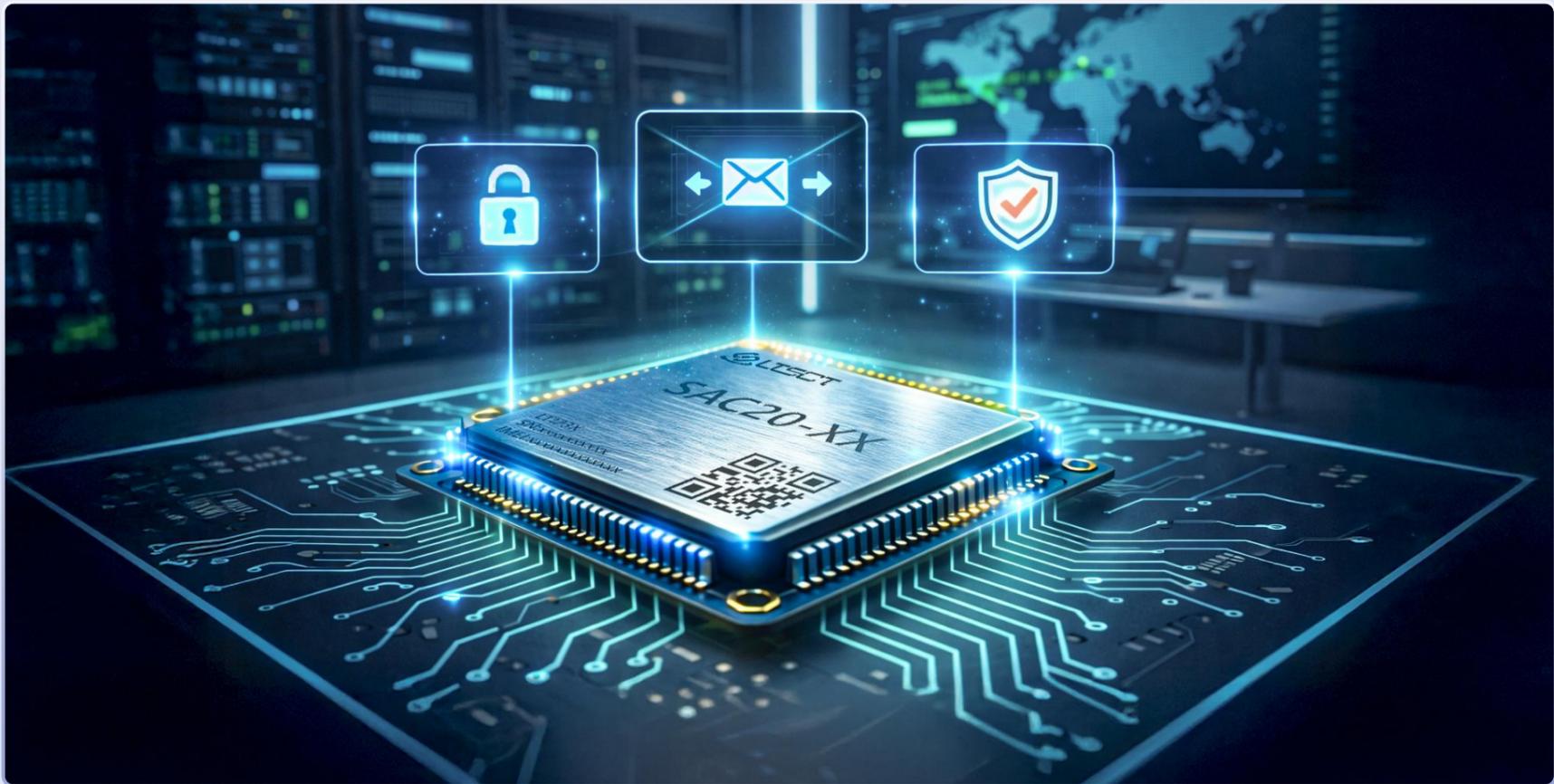


2. Security Embedded at the Module Level

Security is built into the SAC20 architecture rather than added later:

- Authenticated firmware updates
- Encrypted data transfer
- Protection against unauthorized software installation

This reduces integration complexity and accelerates product deployment.



3. High Reliability with Fail-Safe Updates

The SAC20 supports robust update mechanisms such as:

- Pre-installation verification
- Automatic rollback to a known-good firmware version

This ensures business continuity, even in the event of network interruption or power failure during updates.

What Makes SAC20 OTA Buyer-Ready



Secure by Design

- Only verified and trusted firmware images can be installed
- Prevents tampering, rollback attacks, and malicious code execution



Scalable Fleet Management

- Supports simultaneous updates across large device fleets
- Maintains consistent software versions across regions and deployments



Flexible Software Update Support

- Enables OS, firmware, kernel, and application-level updates
- Suitable for Linux/Yocto or Android-based product architectures



Faster Response to Market and Security Needs

- Roll out new features remotely
- Address security vulnerabilities without physical recalls



Risk Mitigation and Compliance Advantages

For buyers operating in regulated, industrial, or mission-critical environments, the SAC20 helps mitigate:

- Cybersecurity threats
- Revenue loss due to downtime
- Compliance risks linked to outdated software

Secure OTA ensures devices remain up to date, auditable, and defensible throughout their operational lifecycle.



Ideal Customers Segments

The **LTSCT SAC20** with secure OTA capability is particularly well suited for: **POS, Vending Machine, Industrial Handhelds Surveillance and Smart Camera Systems.**

These markets demand **high availability, low maintenance overhead** and **long-term reliability** all enabled through secure OTA.



Conclusion: Secure OTA as a Strategic Buying Decision

For customers, secure OTA is not a technical checkbox it is a strategic investment that protects deployed assets, reduces operating costs, and enables long-term scalability. The LTSCCT SAC20 Smart Module delivers a mature, secure, and dependable OTA framework, allowing organizations to confidently deploy and manage connected products over their full lifecycle.

Future. Made Together.

Ready to accelerate your connectivity roadmap?

Partner with LTSCCT Modules to accelerate certification, reduce cost and launch globally.

Book a technical discussion /
sample evaluation request:

Email: jrn@ltsct.com | asha.kulkarni@ltsct.com

Follow us on  

L&T Semiconductor Technologies Limited is a wholly owned subsidiary of Larsen & Toubro Limited



www.ltsct.com