



AVR411: Algoritmo de código variable seguro para enlace inalámbrico

AVR411

Características

- Utiliza el estándar de cifrado avanzado (AES) y su mensaje basado en cifrado modo de operación del código de autenticación (CMAC) para la autenticación del transmisor.
- Admite tamaños de clave de 128, 192 o 256 bits.
- Utiliza modos de suspensión para un bajo consumo de energía - Menos de 30 ms de tiempo de respuesta -
- Herramientas de línea de comandos de PC para la administración de claves criptográficas
- Múltiples transmisiones compatibles
- Mecanismo de aprendizaje seguro para la introducción de nuevos transmisores

Introducción

Esta nota de aplicación describe un protocolo de transmisión de algoritmo de código variable seguro para su uso en un sistema de comunicación inalámbrica unidireccional. Las aplicaciones típicas de este algoritmo son los abrepuertas de garaje, la entrada remota sin llave, la entrada pasiva y los sistemas de amanque remoto de automóviles.

El protocolo de transmisión se puede utilizar en un sistema que consta de un receptor y un número limitado de transmisores asociados. Dos cualidades críticas de este protocolo son: (1) No se requiere ninguna transmisión, lo que evita que un posible ladrón tome el mensaje y lo retransmita y (2) Es prácticamente imposible predecir el contenido del mensaje, incluso si se conocen los mensajes anteriores. El receptor ignora todos los mensajes que ya se han utilizado.

En esta nota de aplicación se incluye una implementación funcional escrita en C. La documentación completa del código fuente y la información de compilación se encuentran abriendo el archivo readme.html incluido con el código fuente.

Avr411 Secure Rolling Code Algorithm For Wireless Link

Martti Lehto, Pekka Neittaanmäki



Avr411 Secure Rolling Code Algorithm For Wireless Link:

Cyber Security Martti Lehto, Pekka Neittaanmäki, 2022-04-02 This book focus on critical infrastructure protection The chapters present detailed analysis of the issues and challenges in cyberspace and provide novel solutions in various aspects The first part of the book focus on digital society addressing critical infrastructure and different forms of the digitalization strategic focus on cyber security legal aspects on cyber security citizen in digital society and cyber security training The second part focus on the critical infrastructure protection in different areas of the critical infrastructure The chapters cover the cybersecurity situation awareness aviation and air traffic control cyber security in smart societies and cities cyber security in smart buildings maritime cyber security cyber security in energy systems and cyber security in healthcare The third part presents the impact of new technologies upon cyber capability building as well as new challenges brought about by new technologies These new technologies are among others are quantum technology firmware and wireless technologies malware analysis virtualization

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Table of Contents Avr411 Secure Rolling Code Algorithm For Wireless Link

1. Understanding the eBook Avr411 Secure Rolling Code Algorithm For Wireless Link
 - The Rise of Digital Reading Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Advantages of eBooks Over Traditional Books
2. Identifying Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Avr411 Secure Rolling Code Algorithm For Wireless Link
 - User-Friendly Interface
4. Exploring eBook Recommendations from Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Personalized Recommendations
 - Avr411 Secure Rolling Code Algorithm For Wireless Link User Reviews and Ratings
 - Avr411 Secure Rolling Code Algorithm For Wireless Link and Bestseller Lists
5. Accessing Avr411 Secure Rolling Code Algorithm For Wireless Link Free and Paid eBooks
 - Avr411 Secure Rolling Code Algorithm For Wireless Link Public Domain eBooks
 - Avr411 Secure Rolling Code Algorithm For Wireless Link eBook Subscription Services

- Avr411 Secure Rolling Code Algorithm For Wireless Link Budget-Friendly Options
- 6. Navigating Avr411 Secure Rolling Code Algorithm For Wireless Link eBook Formats
 - ePub, PDF, MOBI, and More
 - Avr411 Secure Rolling Code Algorithm For Wireless Link Compatibility with Devices
 - Avr411 Secure Rolling Code Algorithm For Wireless Link Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Highlighting and Note-Taking Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Interactive Elements Avr411 Secure Rolling Code Algorithm For Wireless Link
- 8. Staying Engaged with Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Avr411 Secure Rolling Code Algorithm For Wireless Link
- 9. Balancing eBooks and Physical Books Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Avr411 Secure Rolling Code Algorithm For Wireless Link
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Setting Reading Goals Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Fact-Checking eBook Content of Avr411 Secure Rolling Code Algorithm For Wireless Link
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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