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Communication site energy anti-tracking for IoT use

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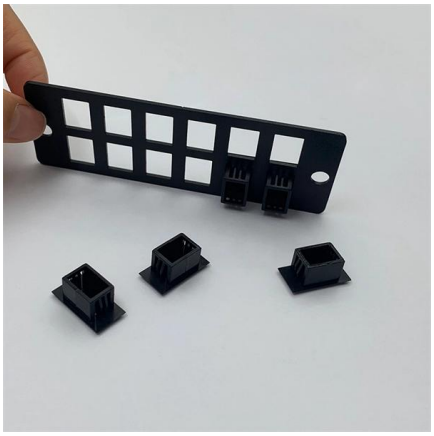

Ambient IoT: A missing link in 3GPP IoT Devices Landscape

This article provides a timely update on 3GPP studies on ambient energy harvesting devices including device types, use cases, key requirements, and related design challenges.

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Reinforcement Learning Based Energy-Efficient Anti-Jamming NB-IoT

Narrowband Internet of Things (NB-IoTs) with limited power supply and long range requirements can apply reinforcement learning (RL) based anti-jamming techniques to choose the

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Bitdefender Labs

Active Subscription Scam Campaigns Flooding the Internet Anti-Malware Research Infected Minecraft Mods Lead to Multi-Stage, Multi-Platform

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Theft-Prevention Tracking Enhancing IoT Devices

The role of MCUs in IoT anti-theft tracking systems OEMs evaluate cost, theft risk, and power trade-offs before integrating theft-prevention tracking

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0528-Ambient Power-enabled IoT white paper

Ambient IoT technology harvests the energy in the surrounding environment, such as light, heat or RF signals, to enable devices that do not require batteries or use only capacitors to work for a decade or

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IoT in energy: a comprehensive review of technologies, applications

The integration of IoT (Internet of Things) in the energy sector has the potential to transform the way it generates, distributes, and consumes energy. IoT can enable real-time

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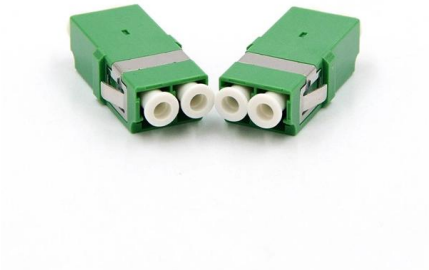

How to integrate theft-prevention tracking capabilities in

The role of MCUs in IoT anti-theft tracking systems OEMs evaluate cost, theft risk, and power trade-offs before integrating theft-prevention tracking

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3GPP Contribution

These services intended to operate with lower power consumption and complexity than the existing IoT technologies such as eMTC, NB-IoT, and RedCap. To fulfil these requirements, AIoT devices require

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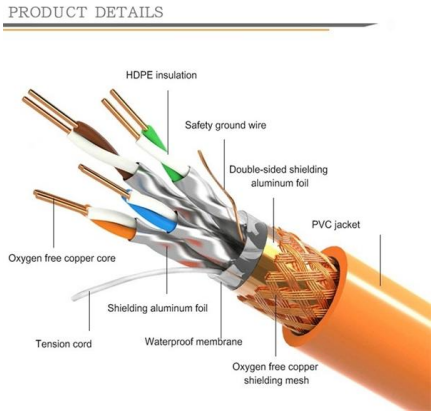

AntCom: An effective and efficient anti-tracking system with dynamic

It is also efficient with respect to latency, communication, and energy, making it suitable for mobile clients. We developed an API that allows other applications to use AnonPoP for adding strong

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Building Resilient ISAC in Maritime IoT: Dynamic Attack Detection and

Modern integrated sensing and communication (ISAC) technology enables the tight integration of sensing and transmission within the framework of maritime Internet of Things (IoT) to

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A comprehensive survey on IoT attacks: Taxonomy, detection

o A comprehensive taxonomy on IoT attacks on attack domains, attack threat type, attack executions, software surfaces, IoT protocols, attacks based on device property, attacks based on

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Technical report ITU-T YSTR.Ambient IoT (01/2025)

The Technical Report explores ambient power-enabled IoT, focusing on its requirements, use cases, and challenges. Ambient-IoT devices harvest energy

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Energy Footprint and Reliability of IoT Communication

Excessive energy consumption of communication protocols in IoT/IIoT systems constitutes one of the key constraints for the operational longevity of

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Energy aware resource management in 6G IoT networks using STAR

To achieve carbon neutrality it is important to design energy aware solutions for sustainable computing. This paper presents a sustainable sixth generation (6G) communication framework

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IoT: Communication protocols and security threats

In this study, we review the fundamentals of IoT architecture and we thoroughly present the communication protocols that have been invented especially for IoT technology. Moreover, we

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Release 19 Ambient IoT

The new IoT technology will provide complexity and power consumption orders-of-magnitude lower than the existing 3GPP LPWA technologies (e.g. NB-IoT and eMTC) and will

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Ambient Internet of Things and Near-Zero Energy Communications

This Special Issue (SI) endeavors to explore pioneering advancements, innovations, and challenges in creating ambient IoT devices that operate with minimal to zero external power sources.

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IoT-based smart meter

Improving on IoT based smart energy meter designs, the smart energy meter proposed in can transmit data real-time through an web based application and support two-way communication.

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Internet of things

Internet of things (IoT) describes physical objects that are embedded with sensors, processing ability, software, and other technologies that connect and exchange

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A comprehensive review of energy harvesting and routing strategies

The study investigates the energy consumption of different types of connections in an IoT network during data transfer, considering factors such as jitter, packet loss, overhead, congestion,

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This article provides a timely update on 3GPP studies on ambient energy harvesting devices including device types, use cases, key requirements, and related design challenges.

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Communication Energy and Protocol Considerations in IoT Deployments

However, similar issues have not been investigated compre-hensively for IoT devices, and in the context of the emerging IoT communication protocols. In this work, we experimentally investigate the impact

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