

Technical Talk

From Concept to Application: The Role of RFID Antennas in Modern Engineering

Synopsis

In this talk, we explore the pivotal role of RFID antennas in modern engineering, particularly within the Internet of Things (IoT) ecosystem. RFID technology is increasingly becoming integral to IoT networks, and the performance of RFID antennas directly impacts the efficiency and reliability of these systems.

We will begin by examining how RFID tag antennas have evolved over time and discuss the critical factors that influence their design and performance. Furthermore, the session will delve into practical guidelines for selecting the appropriate RFID tag for various applications, ensuring optimized network performance.

Finally, we will look ahead to the future of RFID antenna technology, focusing on upcoming innovations and trends that will shape the next generation of IoT solutions.

About the Speaker

Dr. Bong Fwee Leong is a seasoned engineer and researcher with expertise in RF technology and RFID systems. His work on innovative RFID tag antenna designs has been widely published in prestigious international journals, and he serves as a peer reviewer for leading publications. With industry experience at companies like Inventec, Agilent Technologies, and Smartrac Technology, Dr. Bong has contributed to the design and development of numerous RFID tags.

After a brief academic stint, he joined HID Global as an RFID consultant and later became the Training and Metrology Manager. Later on, Dr. Bong founded WaveLink Smart Technical Consulting Center (WaveLink STCC), where he provides specialized RFID technology solutions and technical training programs for various industries. Driven by a passion for advancing RFID technology, he continues to offer his expertise through consulting and education.



The Institution of Engineers, Malaysia
(Penang Branch)



15 Feb 2025 (Sat)

9.30am – 12.00pm



**IEM Penang Secretariat, 1-04-02, eGate,
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Speaker:
Dr. Bong Fwee Leong



Moderator:
Ir. Lee Choo Mou