

Optimized ISM Performance with Flexible Integration

Reliable and efficient wireless connectivity is crucial for IoT, industrial automation, and smart metering applications. YAGEO Group's [SWA4359](#) and [SWA4389](#) 868/915MHz flexible PCB antennas deliver strong ISM-band performance, ensuring stable, long-range communication for M2M and smart infrastructure.

Designed for seamless integration into compact enclosures, these dipole antennas provide omnidirectional radiation and high efficiency while offering two distinct cable orientations to suit different device layouts. The SWA4359 features a parallel (in line with the FPC) cable orientation, while the SWA4389 has a perpendicular cable orientation. Their small size (37mm x 9mm) allows for easy placement within space-constrained designs while maintaining strong RF performance.

Both antennas support 868MHz and 915MHz ISM bands, making them perfect for wireless metering, remote monitoring, and industrial control systems. Their flexible PCB construction ensures easy integration without compromising RF efficiency.

Key Features:

- Frequency Range: 860-930 MHz for ISM-band applications
- Compact Size: Only 37mm x 9mm
- Connector: IPEX MHF 4L with a 100mm cable (customizable)
- Temperature Range: -40°C to +85°C
- Efficiency
 - SWA4359: 35% @ 860-870MHz, 33% @ 900-930MHz
 - SWA4389: 35% @ 860-870MHz, 37% @ 900-930MHz
- Peak Gain
 - SWA4359: 2.3dBi @ 860-870MHz, 2.2dBi @ 900-930MHz
 - SWA4389: 2.8dBi @ 860-870MHz, 3.0dBi @ 900-930MHz
- Cable Orientation:
 - SWA4359 - Parallel
 - SWA4389 – Perpendicular