![Wi-SUN Alliance]

Advancing Adoption of Interoperable Wireless Solutions
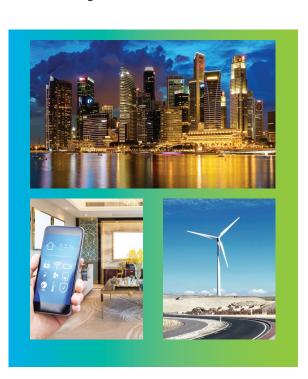
The Wi-SUN™ Alliance seeks to accelerate the implementation of smart grids, smart cities, smart utilities and large-scale outdoor IoT applications by enabling the global adoption of interoperable solutions based on open standards.

It creates communications layer specifications based on open standards from organizations such as IEEE802, IETF, TIA, TTC and ETSI and develops a robust testing and certification program guaranteeing that products that implement the Wi-SUN specification interoperate. There are over 200 certified products worldwide.

Wi-SUN specifications bring Smart Ubiquitous Networks to service providers, utilities, municipalities/local government and other enterprises, by enabling interoperable, multi-service and secure wireless mesh networks. Wi-SUN can be used for large-scale outdoor IoT wireless communication networks in a wide range of applications, including:

The Wi-SUN Alliance FAN profile supports a variety of applications including:

- **Smart grid** — e.g. advanced metering infrastructure, peak load management, control of power distribution, renewable energy, e.g. control of solar and wind farms

- **Smart cities** — e.g. street lighting, traffic management, smart parking

- **Structural health monitoring** — e.g. monitoring of the integrity of bridges, buildings, etc.

- **Agriculture** — e.g. monitoring temperature and humidity in greenhouses

Membership

With more than 300 member companies, membership is growing year on year. Represented in 46 countries worldwide, membership includes silicon and product vendors, services providers, utilities, universities and municipalities.

Wi-SUN Certified logo gives the marketplace confidence that products can work together in an interoperable, multi-vendor network. Product vendors in particular benefit from using Wi-SUN profiles derived from open standards, as well as access to a global market and from a certification program that adds value to their products.

Key strengths:

- *Security* — is a core concern for any network as compromised devices can be used to mount attacks on other networks, resulting in costly technology replacements or, worse, disrupt essential services or public safety as would be the case for critical IoT networks. Enterprise-grade security is the gold standard among IoT networks. Wi-SUN networks also support over the air upgrades, which are essential for providing security patches and longevity for the network.

- *Scalability* — Wi-SUN-based mesh networks have proven themselves across a range of challenging and remote environments around the world. Tens of millions of reliably connected endpoints demonstrate that a Wi-SUN based IoT mesh network can achieve the ubiquity and scalability many IoT customers demand.

- *Resilience* — Wi-SUN networks offer resilience against faults and interference. For example, it is extremely difficult to disrupt a Wi-SUN network, e.g. through a denial of service attack.

- *Adaptability* — Wi-SUN adapts to the landscape and environment as it evolves, so a Wi-SUN network will re-route around a high-rise building or optimize routes for data transmission.

Join Us

Companies can join the Wi-SUN Alliance to gain access to the Wi-SUN specifications. More information on our membership benefits and the fee structure can be found at **https://www.wi-sun.org** or by emailing us at **info@wi-sun.org**.

For More Information:

Find us at **www.wi-sun.org** or contact us at **info@wi-sun.org**