AETHERLINK / WIRELESS NETWORK COMMUNICATION

Wi-SUN Module

Wi-SUN-based wireless communication for compatible smart meters and field devices.



Product visualisation · appearance depends on configuration

Product overview

The AetherLink Wi-SUN Module provides a plug-in wireless communications option for compatible smart meters and IoT field devices. Its communications functions include frequency hopping, automatic network recovery and remote upgrade support. These functions support the operation and maintenance of distributed field networks as radio conditions and network membership change. The applicable Wi-SUN profile, operating band and host interface must be matched to the gateway and regional deployment. Product selection should therefore be based on the complete communications configuration, rather than the enclosure or antenna appearance alone.

Key capabilities

Wi-SUN-based connectivity. Provides the wireless communications function within a compatible meter or field-device implementation.

Frequency hopping. Supports operation across frequencies as part of the configured wireless network.

Automatic network recovery. Supports recovery of network connectivity after a disturbance, subject to the host and network configuration.

Remote upgrade support. Supports remote software maintenance through the implemented host and network management process.

Application fit

Wireless AMI and field-device networks in which a Wi-SUN-based communications path is specified.

FUNCTIONAL CHARACTERISTICS / INTEGRATION

Specify the complete configuration.

Match the module to its host and network before selecting the delivered variant.

CHARACTERISTIC	PRODUCT INFORMATION
Communication medium	RF wireless
Communications technology	Wi-SUN-based implementation; profile to be agreed for the project
Frequency management	Frequency hopping
Network maintenance	Automatic network recovery
Software maintenance	Remote upgrade support
Host integration	Plug-in module for a compatible meter or field device
Operating band	Selected for the destination market and network implementation

System context

HOST	COMMUNICATIONS PATH	NETWORK ENDPOINT
Compatible meter	Wi-SUN network	Compatible gateway

System context is illustrative. Host application protocols, upstream services and interoperability depend on the complete implementation.

Integration considerations

Profile and interoperability. Specify the required Wi-SUN profile and validate the selected module with the intended gateway and host firmware.

Radio planning. Confirm the operating band, antenna installation, site conditions and applicable regional requirements.

Software maintenance. Agree the upgrade process, version compatibility and recovery behaviour with the host and network management implementation.

CONFIGURATION SCOPE Wi-SUN identifies the communications technology here. No alliance certification, protocol edition or certified interoperability scope is asserted.

Supply limits, connector details, dimensions, environmental ratings, operating bands and quantitative performance are specified for the selected configuration. Request the applicable integration data from Archai.

Discuss your configuration

Share the host meter, destination market, network technology and integration requirements with Archai.

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