AETHERLINK / WIRELESS NETWORK COMMUNICATION

RF Mesh Module

RF mesh communication for compatible smart meters and connected field devices.



Product visualisation · appearance depends on configuration

Product overview

The AetherLink RF Mesh Module provides a plug-in wireless communications option for compatible smart meters and IoT field devices. It supports RF mesh networking, frequency hopping, automatic network recovery and remote upgrades. These functions support field communications and ongoing software maintenance within the selected network implementation. The operating band, host interface and gateway compatibility are configuration-specific. RF mesh should therefore be treated as a defined project architecture, with the module, host firmware and network equipment selected and validated together.

Key capabilities

RF mesh networking. Provides the communications function for compatible meters and field devices in an RF mesh implementation.

Frequency hopping. Supports operation across frequencies within the configured radio network.

Automatic network recovery. Supports restoration of network connectivity following a disturbance, subject to network and host behaviour.

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

Application fit

Wireless AMI and field-device networks that specify an RF mesh communications architecture.

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
Network architecture	RF mesh
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	RF mesh network	Compatible gateway

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

Integration considerations

Network and gateway. Specify the required mesh implementation and validate interoperability with the gateway and host firmware.

Radio configuration. Confirm the operating band, antenna arrangement, installation conditions and regional requirements.

Software maintenance. Agree upgrade control, version compatibility and recovery behaviour for the complete host and network implementation.

CONFIGURATION SCOPE RF mesh and Wi-SUN are separate selection entries in this range; protocol equivalence must not be inferred from similar housings.

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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