AETHERLINK / POWER-LINE COMMUNICATION

G3-PLC Module

G3-PLC communication over low-voltage networks for compatible smart meters.



Product visualisation · appearance depends on configuration

Product overview

The AetherLink G3-PLC Module provides a power-line communications path between compatible smart meters and gateways over the low-voltage network. It is powered directly by the host meter and uses a microcontroller for communications control. Automatic recovery support helps to re-establish communication after network disturbances when operating conditions permit. The module is intended for projects that specify G3-PLC access networking. The applicable PLC profile, coupling arrangement, host interface and gateway implementation must be agreed for the delivered configuration.

Key capabilities

G3-PLC access networking. Provides the communications function for a compatible meter-to-gateway implementation using the power network.

Meter-supplied power. Receives power from the compatible host meter, with supply limits and loading defined during integration.

Automatic recovery. Supports communications recovery following network disturbances, subject to the configured host and network.

Plug-in communications control. Combines a module form factor with microcontroller-based control of the communications functions.

Application fit

Low-voltage AMI access networks specifying G3-PLC between compatible meters and gateways.

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	Low-voltage power line
Communications technology	G3-PLC implementation
Network role	Data exchange between compatible meters and gateways
Power source	Compatible host meter
Processing	Microcontroller-based communications control
Recovery	Automatic communications recovery following network disturbances
Host integration	Plug-in module; interface and coupling arrangement are configuration-dependent

System context

HOST	COMMUNICATIONS PATH	NETWORK ENDPOINT
Compatible meter	G3-PLC power-line network	Compatible gateway

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

Integration considerations

PLC profile and gateway. Agree the G3-PLC profile and operating band, then validate communication with the intended gateway.

Host interface and supply. Confirm the connector, pin assignment, supply limits, firmware and coupling arrangement for the selected meter.

Network conditions. Assess the intended low-voltage network and the recovery requirements. Fault withstand, surge limits and environmental limits require separate configuration-specific ratings.

CONFIGURATION SCOPE The G3-PLC name identifies the technology. No alliance certificate, exact standard edition or electrical withstand rating 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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