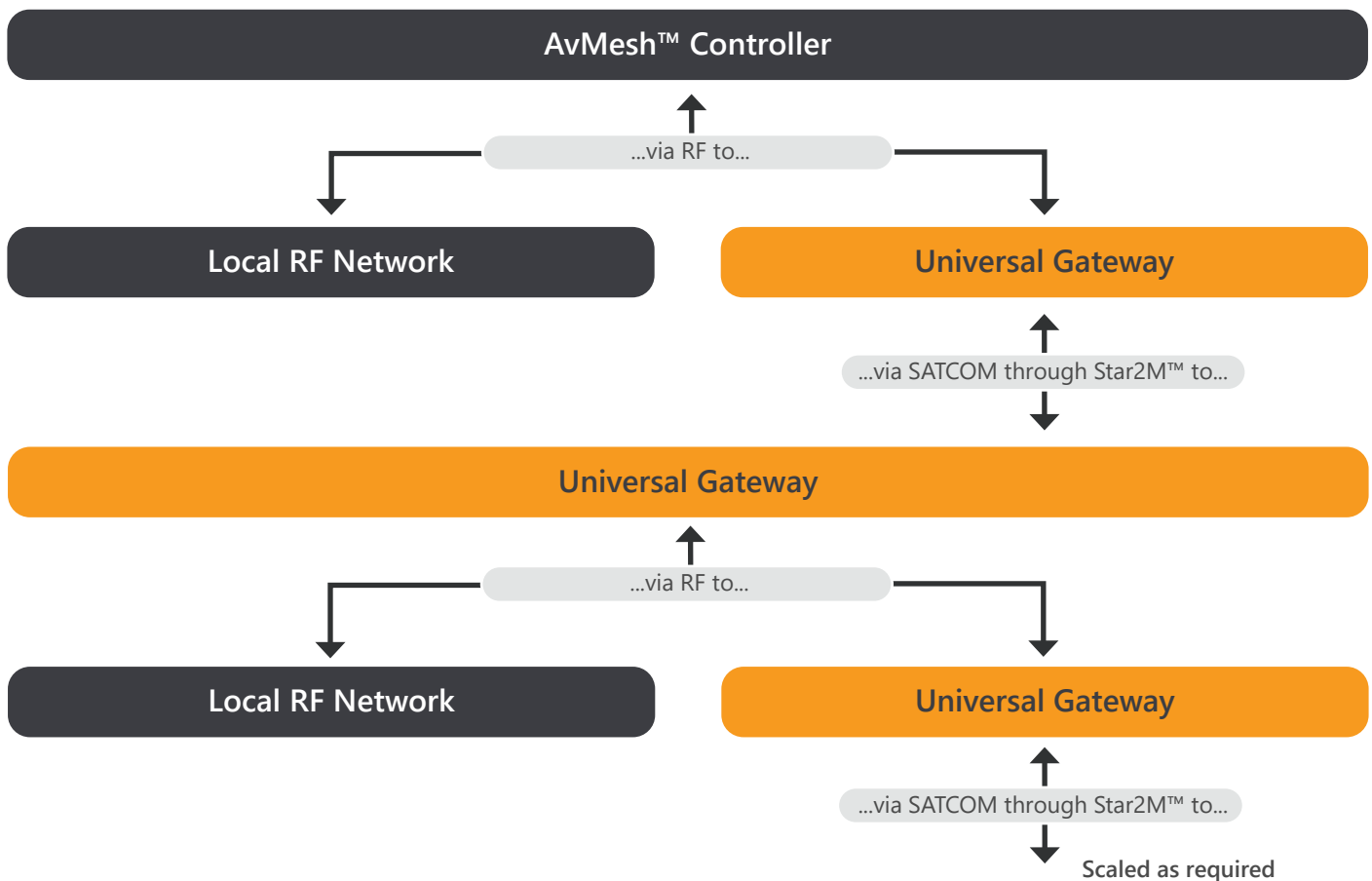


Application Note

AV-UGW (Universal Gateway) IoT Mesh Network



Application details

The Universal Gateway has many applications, including setting up an IoT Mesh Network.

An IoT Mesh Network is an infrastructure of nodes that are wirelessly connected. These nodes piggyback off each other to extend a radio signal to route, relay, and proxy traffic to and from clients, much like a Wi-Fi or cellular connection.

The AvMesh Controller connects via RF to a local RF network with SATCOM input and a Universal Gateway. The Universal Gateway enables wireless control via SATCOM or RF into another Universal Gateway with RF output into an additional Universal Gateway. This can then infinitely continue the network via SATCOM through Star2M or via RF.

Easy set-up is standard and available via the Universal Gateway Configurator Application.

Interfaces available

- RF mesh network communication
- Serial configuration interface via USB
- Satellite communication (SATCOM) interface

Min UGW Firmware version: S101

Note: This application can be used in conjunction with other applications and notes.