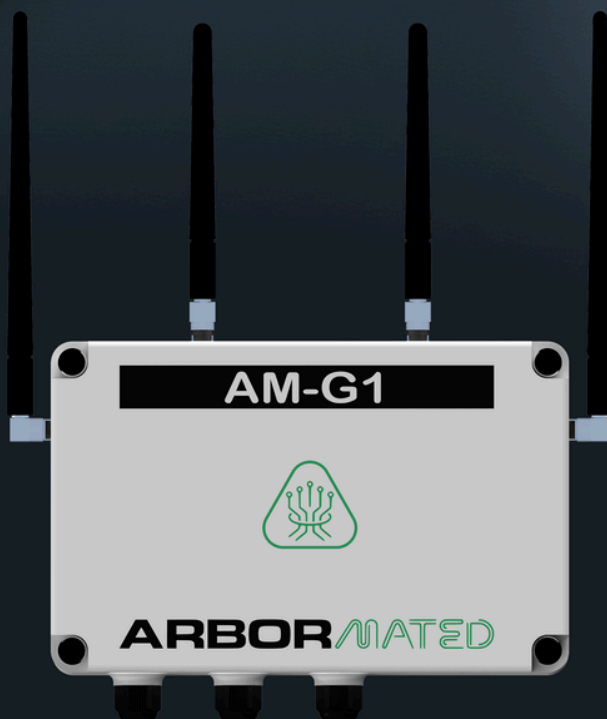


ArborGate G1



Wi-Fi · Ethernet · cellular LTE



1000+ node LPWAN mesh hub



RS485 Modbus pump / VFD control



Dual-core application processor



IP67 enclosure



GNSS positioning



Bluetooth setup & diagnostics



Plug-in · solar · battery · up to 96 h backup

The farm's network hub: an IP67 gateway that builds a long-range LPWAN mesh for 1000+ field nodes, stays online through Wi-Fi, Ethernet, or cellular LTE, commands pumps and VFDs over Modbus, and keeps running on plug-in, solar, or battery power — including up to 96 hours of backup when site power fails.



One gateway. Whole-farm control.

Long-range LPWAN mesh designed for 1000+ field nodes — valves, sensors, and asset-management nodes on farm machinery — from a single irrigation block to a full ranch, with Bluetooth for setup and nearby diagnostics.

Multi-path connectivity that matches the site.

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Buried wire faults. Unreachable pump houses. Controllers locked to one vendor's radios. Large farms lose hours to infrastructure that is difficult to access, expand, and integrate. ArborGate G1 is the field hub that ends that fragmentation: it builds a long-range wireless mesh for valve, sensor, and asset-management nodes (including hardware that hooks to farm machinery for tracking and dashboard visibility), connects upstream through Wi-Fi, Ethernet or cellular LTE, and commands pump VFDs through industry-standard Modbus — one gateway for network, pump infrastructure, and the A.I.M platform.

ArborGate G1 — field control without the wire. Connect the nodes. Command the pumps. Keep the farm online — even when the power does not.

Specifications

General

Spec	Value
Product name	ArborGate G1
Product code	AM-G1
Role	Field gateway + pump / VFD control companion
Category	Farm Operations Platform
Enclosure	IP67
Suggested price	Inquire

Power & energy

Spec	Value
Power modes	Plug-in supply · solar panel · onboard battery
Solar input	12–24 V
Panel class	40–60 W
Charge management	MPPT-based
Battery	4S LiFePO4 · 6500 mAh
Battery health	Monitored
Solar-only operation	Supported — can run without a power port using solar panel
Outage backup	Up to 96 hours of battery operation if power is shut down
AC / plug-in option	Plug-in charging / power-assist
Autonomy note	Backup duration under typical gateway duty — site load and temperature dependent