

HIGH NODE COUNT SOLUTIONS

Built on flexible connections that enable an entire family of High Node Count networks designed for simple systems to complex IoT, ANT High Node Count networks deliver robust, reliable solutions.

	Shared Channels	Continuous Scan	Scan & Forward	Connected Mesh
Topology	Star	Star	Mesh	Mesh
Connections	Yes	No	No	No
Node Distribution	Single hop dense environments	Single hop dense environments	Multi hop sparse environments	Multi hop sparse environments
Node Mobility	Limited	Yes	Yes	Limited
Power Consumption	Battery on all nodes	Sensors on batteries, Receivers on mains	Mains/Battery	Battery
Data Flow/Latency	Low when sending data to all nodes; high when collecting data from nodes	Low latency in both directions	Dependent on hop count	Dependent on hop count
Smartphone Connectivity	Yes	Yes	Yes	Yes </td
Run Bluetooth Smart Concurrently	Yes	No	Yes	Yes

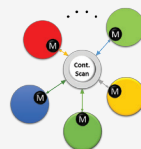
* Shared Channel and Continuous Scan balance power consumption from one side to another.

STAR NETWORKS



Shared Channel

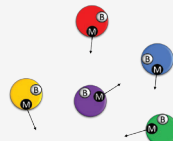
Up to 65k bi-directional coin cell powered nodes; master can poll individual or all nodes at once with low latency.



Continuous Scanning

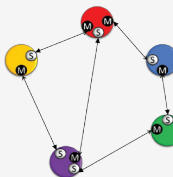
For high power data collection in real time from battery-operated device or for multiple device control.

MESH NETWORKS



Scan & Forward

A connectionless mesh network for control use cases with broad range potential, no special router nodes required.

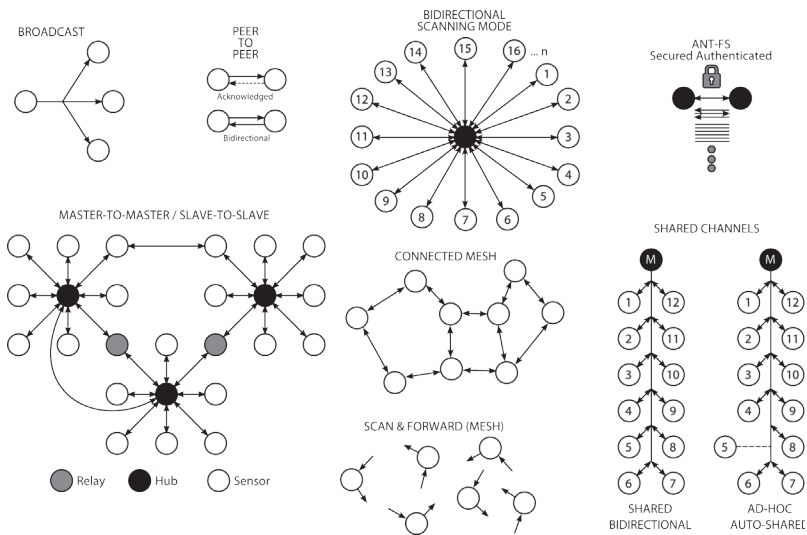


Connected Mesh

A symmetrical self forming, self healing mesh network with battery powered nodes that know who their neighbors are.

WIRELESS CONNECTIVITY MADE EASY WITH ANT

NETWORK TOPOLOGY OPTIONS



BENEFITS

- 12 years in the market
- 240,000,000+ nodes in the field
- Ultra Low Power
- High Node Count network topologies
- Synchronous bi-directional connections to over 65,000 nodes on a single channel
- Built-in mobile platform support
- Flexible communication with efficient implementations
- Symmetrical connection capabilities on all nodes
- Low overhead to set up channels and pair
- Bi-directional beacons with full uplink data transfers
- Hardware, software, and tools for PC, Mac, Android and embedded development

HARDWARE SOLUTIONS

Chips, Modules & Dev Kits

ANT BRIDGE SOLUTIONS

USB, WiFi & PoE

ONLINE TOOLS

ANTware II Debug Tool
<http://www.thisisant.com/resources/antware-ii>

ANT Android SDK
<http://www.thisisant.com/resources/android-ant-sdk-package/>

Power Consumption Estimator
<http://www.thisisant.com/developer/components/developer/>

WORLDWIDE DISTRIBUTION

Global/Online/North America

AVNET

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SymmetryElectronics

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