



POWERED BY D52 ANT SoC PREMIUM MODULE SERIES

WHY USE ANT Blaze™?

Mesh Made Easy

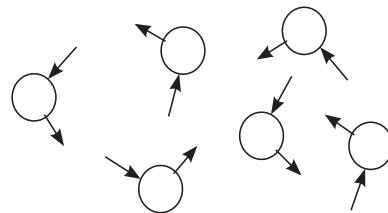
- Self-forming and self-healing networks
- Eliminates special node configuration requirement
- Easily commission networks with your phone or tablet

Break Free

- Works independently from your organization's IT Network

Enterprise Scalability

- Supports tens of thousands of nodes
- High data throughput
- Coexists in noisy wireless environments



A connectionless mesh network for monitoring and control use cases that require large range capabilities with no special router nodes.

CONNECTIVITY FEATURES



connect multiple nodes in a noisy environment to a gateway



flexibility to co-exist with other ULP wireless solutions



operates with no interference or disruptions to/from IT infrastructures



robustness and concurrent operation in WiFi and BLE environments



high throughput (>50 bytes/s)



supports node mobility

MODULE HARDWARE

The updated D52 ANT SoC Module Starter Kit (D52DK2) contains everything needed to begin developing with ANT, ANT Blaze and Bluetooth low energy technology. The newly released Extender Kit (D52EXT1) includes four battery powered nodes to enable ANT Blaze IoT application development.

ANT® OPERATION

(when loaded with S212 or S332 SoftDevice)

- 79 selectable RF channels (2402 to 2480 MHz)
- Simple to complex network topologies: peer-to-peer, star, tree, star-to-star and more
- Broadcast, acknowledged, and burst data communication modes
- Built-in device search and pairing
- Built-in interference handling and radio coexistence management with application radio disable requests and application flash write/erase requests
- Enhanced ANT features
 - Supports up to 15 logical channels each with configurable channel periods (5.2ms - 2s)
 - Advanced burst data transfer modes (up to 60kbps)
 - Optional channel encryption mode (AES-128)
 - Supports up to 8 public, private and/or managed networks
 - Advanced power management features to optimize application power consumption including Event Filtering & selective data updates
 - Asynchronous transmit channel
 - Fast channel initiation





BLUETOOTH® OPERATION*

(when loaded with the S332 SoftDevice)

- Bluetooth 4.2 compliant low energy single mode protocol stack suitable for Bluetooth low energy products
- Concurrent Central, Observer, Peripheral, and Broadcaster roles with up to:
 - Multiple connections as a central
 - One connection as a peripheral
 - Observer & Broadcaster
- Link layer
- L2CAP, ATT, and SM protocols
- GATT and GAP APIs
- GATT Client and Server

*Bluetooth only mode when loaded with the S132 SoftDevice

D52 ANT PREMIUM MODULES SUPPORTING ANT BLAZE

	PART NUMBER	DESCRIPTION	ORDERING/PACKAGE INFO*	PART STATUS
	D52QPM4IA	20x20mm, 30GPIOs, 8 analog inputs	TRAY: 20pc in 4x5 tray REEL: 800pc on 13" tape and reel	Active
	PART NUMBER	DESCRIPTION	ORDERING/PACKAGE INFO*	PART STATUS
	D52QPM4IA-A	20x20mm, 24GPIOs, 5 analog inputs; onboard 3-axis MEMS accelerometer	TRAY: 20pc in 4x5 tray REEL: 800pc on 13" tape and reel	Active
	PART NUMBER	DESCRIPTION	ORDERING/PACKAGE INFO*	PART STATUS
	D52MPMM8IA	14.0x9.8x2.0mm, 24GPIOs, 8 analog inputs	TRAY: 40pc in 8x5 tray REEL: 1500pc on 13" tape and reel	Active
	PART NUMBER	DESCRIPTION	ORDERING/PACKAGE INFO*	PART STATUS
	D52QSKM6IA-A	Mounted on a carrier board for starter kit & development use	TRAY: 10 pc on 150x165mm tray	Active

*D52 ANT SoC Premium Modules are available in tray and tape and reel packaging

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