

SNAP2410 2.4 GHz FREQUENCY HOPPING SPREAD SPECTRUM NETWORK ACCESS POINTS WITH 10BASE-T



Designed for use as a base station for WIT2410-based products, the SNAP2410 family of products provides seamless roaming as well as Ethernet connectivity. The SNAP2410 family provides access points connecting from 62 to 124 WIT2410 wireless remotes to a 10Base-T Ethernet network. The SNAP family also is ideal for use as access points for a network of CIRRONET™ HopNet 10 Series modems. Multiple SNAPs can be used to establish large coverage areas through which wireless remotes can roam without having to re-synchronize. Certified by the FCC and ETSI and CE marked, the SNAP2410 family can be used license-free worldwide.

Seamless Roaming. Seamless roaming allows applications to be in constant communication with remotes. Even as remotes move from one coverage area to another, constant communication is maintained.

Ethernet Connectivity. The SNAP2410 family has a 10Base-T connection to provide communications to the host. Capable of 10 Mbps operation, the SNAP2410 family provides a cost-effective method for connecting a network of base stations.

Built-In 4 Port Hub. The SNAP2414/2424 models have a built-in 4-port hub with an uplink port to connect to other hubs. This allows multiple SNAPs to be connected without having multiple cable runs back to a wiring closet. These SNAPs are also able to provide power to 3 additional SNAPs. The result is a network of multiple SNAPs with a single 10BaseT cable and a single power source.

Scalable. SNAP family members have 1 or 2 spread spectrum radios installed. The SNAP2410/2414 have single radios installed providing 460Kbps throughput for up to 62 remotes. The SNAP2424 has 2 radios installed providing 921.6Kbps throughput for up to 124 remotes.

Versatile. Configuration of the SNAP family is through a standard RS-232 serial port using CIRRONET's WinSNAP24 Windows® based software. Alternatively, the SNAP may be configured through a Telnet session.

The system designer is given the freedom to choose the wireless communication parameters that provide the optimum performance for each application. Thus, the communication between the base station and the remotes is not 802.11 compatible. Point-to-point and point-to-multipoint modes are supported using a dynamically assigned TDMA mode.

Reliable. The SNAP2410 family provides both reliable communication and reliable operation. With Frequency Hopping Spread Spectrum technology, the SNAP provides immunity to jamming as well as immunity to multipath fading. Using Automatic Retransmit Request (ARQ) in addition to a 2K buffer, transparent error-free communication is automatic. The built-in data scrambling adds a measure of security. And reliable operation is assured through our stringent QA processes including a full 48-hour burn-in.

Let us be your experts. Put our 10+ years experience with wireless technology to work for you. To find out how to put CIRRONET™ to work for you, visit our website www.cirronet.com or call: +1.678.684.2000

FEATURES:

- 2.4 GHz Frequency Hopping Spread Spectrum technology
- Seamless roaming capability
- 460Kbps to 920Kbps data rate throughput
- FCC certified for license-free operation
- 4-Port Hub option

BENEFITS:

- Worldwide license-free operation
- Immunity to jamming and multipath fading
- Supports far ranging mobile applications
- Supports up to 124 remotes per access point
- Shortens time to market
- Simple installation



SNAP2410 SPECIFICATIONS

GENERAL SPECIFICATIONS

MODEL	SNAP2410	SNAP2414	SNAP2424
RF Frequency	2400 to 2483 MHz		
Radio Certification	Certified under FCC Part 15.247 and ETS 300-328 rules, license free		
Operating Range	Indoor: 450' to 900' Outdoor: 3000' with dipole antenna, >5 miles with gain antenna		
Radio Network Topology	Star network		
Radio Network Protocol	Dynamically assigned TDMA with ARQ		
Configuration Interface	Asynchronous (RS-232) up to 230.4 Kbps		
I/O Data Rate	10 Mbps Ethernet to the SNAP, 230.4Kbps to each radio		
# of Radios	1	1	2
Aggregate Throughput	460.8Kbps	460.8Kbps	921.6Kbps
4-Port Hub	No	Yes	Yes
# of Frequency Channels	75		
RF Bandwidth	750 KHz		
Transmit Power Output	10 mW or 100 mW, software selectable		
Receiver Sensitivity	-93 dBm		
Supply voltage	9vdc	9vdc - 24vdc	9vdc - 24vdc
Power Consumption	4.5W	6.75W	9.0W
Size (mm)	201 x 144 x 53	232 x 213 x 42	232 x 213 x 42
Weight	727g	650g	685g
Case Material	Aluminum	ABS Plastic	ABS Plastic
Operating Temperature	0°C to 70°C		
Humidity	20% to 90% (non-condensing)		

CONNECTORS

Power	2-Pin DIN
Ethernet	RJ-45 (5 on -14, -24)
Configuration Port	DB-9
Alternate Sync IN	RJ-11
Alternate Sync OUT	RJ-11
Antenna	TNC (-10) Reverse SMA (-14, -24)

INDICATORS

Power
Ethernet Transmit Data
Ethernet Receive Data
Collision
Ethernet Link

TYPICAL NETWORK CONFIGURATION

