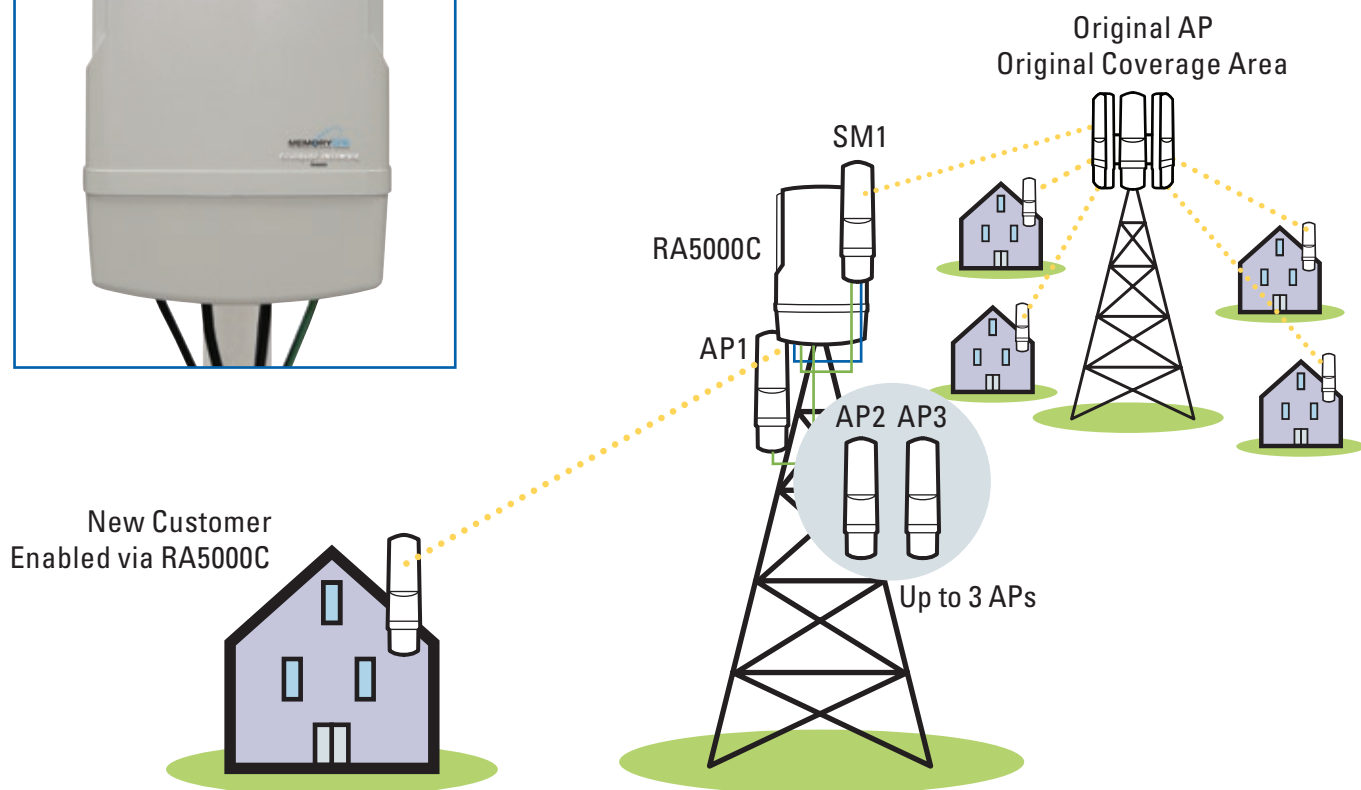# COVERAGE EXTENDER

RA5000C

**Simple, cost effective
extension of Canopy networks**

MemoryLink's Coverage Extender™ RA5000C provides a simple, cost effective expansion of your Canopy® network to service potential end-customers outside of your current wireless coverage range. These potential customers may simply be located beyond the line-of-site (LOS) of the Access Point (AP) or AP cluster, or within range, but in a coverage dead-zone, blocked by manmade or natural obstructions. In such cases, the RA5000C can be deployed, as shown below, with a connected Canopy Subscriber Module (SM) at an intermediate location within range of both the end-customer, and the AP or AP cluster. By connecting one or more additional AP's to the RA5000C at a non-interfering frequency, your coverage area can be expanded, and bandwidth essentially extended, to capture new customer revenue opportunities.

Designed to be mounted outdoors within close proximity to the connected SM, The RA5000C comes with its own power supply and eliminates the need for individual power supplies for each connected Canopy device. This allows for a quick, "clean" deployment in a variety of situations.

Original AP
Original Coverage Area

SM1

RA5000C

AP1

AP2 AP3

Up to 3 APs

New Customer
Enabled via RA5000C

Features/Functionality
- Ethernet connectivity:
  Port 1: SM
  Port 2: AP
  Port 3: AP
  Port 4: AP
  Port 5: Local subscriber & Power in
- Sources Canopy-compliant power over Ports 1-4
- Sync Pulse Input connects to Sync Pulse Output Connector (RJ-12/25) of the connected Canopy SM.
- Supports the following Canopy line-of-site (LOS) platforms:
  2.4 GHz
  5.1 GHz
  5.2 GHz
  5.4 GHz
  5.7 GHz
- Supports non-LOS for 900 Mhz Canopy platforms.

Ethernet Interface
- 10/100 Base T
- half/full duplex
- Rate auto negotiated (802.3 compliant)
- Transparent support of standard IP protocols

Sync Support
- Sync pulse input:
  Sourced from standard RJ-12/25 sync pulse connector on a Canopy SM (or Backhaul)
- Sync pulse output:
  Modulated over Canopy-compliant power sourced on ports 2 - 4

Maximum cable length
- Between RA5000C and SM: 10 feet
- Between RA5000C and each AP: 330 feet (100 meters)

Electrical
- Power Supply
  Input supply voltage: 120 -240 VAC
  Input voltage freq: 50/60Hz
  Output current: 0.8 A
  Output voltage: 56VDC

Physical
- Outdoor rated enclosure
- Suitable for mounting on:
  Tower locations
  Street lights
  Buildings
  Water towers
- Height: 13" (33 cm)
- Width: 7.5" (19.0 cm)
- Depth: 3.5" (8.9 cm)
- Depth including mast mount: 5.6" (14.2 cm)
- Weight: 2.5 lbs
- Material: UV resistant ABS plastic

Indicators
- Ethernet status LED's (each port)
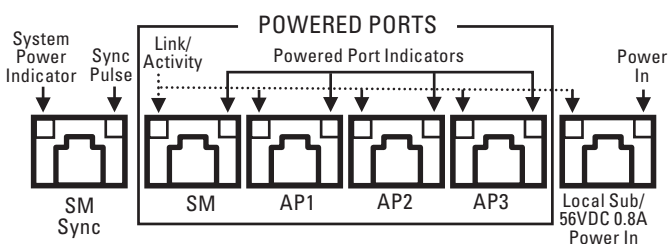- Link/Activity
- Powered Port

Environmental
- Operating temperature:
  −40° C to +55° C
- Storage temperature:
  −40° C to +85° C
- Operating humidity:
  100% maximum (non-condensing)
- Storage humidity:
  100% maximum (non-condensing)
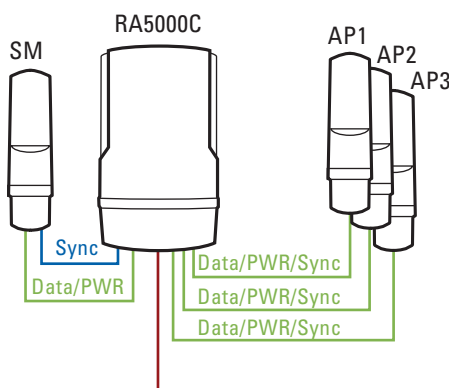- Passive cooling (No Fan)

Regulatory
- US: FCC Part 15 Subpart B Class B Digital Device UL 950
- Europe: CE
- Restriction of Hazardous Substances – RoHS Directive 2002/95/EC compliant

Connectors

Connectivity (Canopy units not included)

Power/Local Subscriber or Backhaul

Compatibility
Supports Canopies with FPGA versions of 0429 and above, and software versions greater than or equal to 4.0.
Memorylink Part Number: RA5000C

For more information, please call: 1-866-398-4336 or 847-259-9680
www.memorylink.com

MEMORYlink

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