

cradlepoint AP22 Spec Sheet





INTRODUCTION

WHAT'S IN THE BOX

- Semi-compact wireless access point designed for the commercial distributed branch market
- Mounting brackets and screws
- Quick Start Guide with warranty information

KEY FEATURES

- Up to 300 Mbps for 2.4GHz radio
- Up to 876 Mbps for 5GHz radio
- 802.11ac Wave 2 support
- 2x2 MU-MIMO with 2 spatial streams per radio
- Third 1x1 radio for dedicated RF and WIPS scanning
- 3 integrated omni-directional antennas
- Full operational capacity with 802.3af PoE
- Wall and ceiling mounting support

WiFi

- 802.11 2x2 DBDC ac wave 2 2.4 GHz and 5 GHz
- Up to 124 connected devices per radio
- 4 SSIDs per radio
- WPA2 Enterprise
- QoS WMM/802.11e/802.1p
- VLAN 802.10

MANAGEMENT

- Data rate management utilizes Cradlepoint NetCloud Manager (NCM)
 - · Configuration & management
 - · Firmware update via NCM
 - Basic Network/Group Configuration templates
- Zero-touch deploy when a Cradlepoint router is within the network
 - Uses Stream for auto-connect to NCM
 - · Minimum Auto Provisioning when connected to Cradlepoint router
- Unique configurations per SSID with inheritance
- Hidden SSID support
- Basic Site Survey
- Basic Analytics
- SNMF
- CLI Management (SSH) basic troubleshooting & connect to NCM
- AP Location Tracking via router (LLDP)



SECURITY

- WPA-PSK, WPA-TKIP, WPA2 AES, 802.11i
- 802.1x with RADIUS for WPA2-Enterprise
- WEP
- Rogue AP Indicator
- MAC Address Filtering
- Advanced Security Mode (local user management only)
- Per-Client Web Filtering
- Network Availability Scheduling
- Content Filtering (basic)

1 – AP22 is L2 device and requires a Cradlepoint router with a NetCloud Manager subscription. (The AP should be able to be deployed with basic functionality without a Cradlepoint router.)

2 - Requires NetCloud Manager

SPECIFICATIONS

WiFi:

- Dual-band concurrent 2x2 802.11a/b/g/n/ac wave 2 (Multi-user MIMIO, 256 QAM)
- Spatial streams:
 - Single-User MIMO: up to 2 streams
 - Multi-User MIMO: up to 2 streams
- Channels: 20MHz, 40MHz, 80MHz
- Max Power Output: 20-27 dBm for 2.4GHz and 5GHz

PORT: 1x Gigabit Ethernet port, 1 USB 2.0

TEMPERATURE: -10 °C to 50 °C (14 °F to 122 °F) operating

HUMIDITY (non-condensing):

- 10% to 90% operating
- 5% to 95% storage

POWER: 802.3af PoE

WIFI POWER (FCC):

- (2.4 GHz band): 27 dBm
- (5.0 GHzz band): 27 dBm

SIZE: 6.49d x 6.49w x 1.811h inches (165mm x 165mm x 46mm)

WEIGHT: 6 oz (175 g)

CERTIFICATIONS:

- PTCRB, FCC, IC, WFA, ETSI
- Safety: UL/CUL
- Materials: WEEE, RoHS, RoHS-2, California Prop 65



ACCESSORIES

PoE Injector (sold separately)

· Line Cords for PoE injectors (powers AP22)

US Part Number: 170732-000
EU Part Number: 170733-000
AU Part Number: 170733-001
UK Part Number: 170733-002

BUSINESS-GRADE MODEM SPECIFICATIONS

WiFi Radio Specification:

- DBDC 2x2 802.11a/b/g/n/ac Wave 2 (MU MIMO, 256 QAM)
- 3rd 1x1 802.11ac switchable radio for WIDS/WIPS
- One 10/100/1000 Ethernet port
- One USB 2.0 ports:
- Power: 802.3af Power over Ethernet port)
- Antennas: 3 integradted internal antennas
- Industry Standards & Certs: FCC, WFA, ETSI
- Frequencies supported:
 - 2.4 GHz (2412 2472 MHz)
 - 5 GHz
 - U-NII-1 (5.150-5.250 GHz)
 - U-NII-2e (5.470-5.725 GHz)
 - U-NII-3 (5.7225-5.825 GHz)

Supported Data Rates:

- 802.11n/ac: 6.5Mbps 173.4Mbps (20MHz)
- 13.5Mbps 400Mbps (40MHz)
- 29.3Mbps 867Mbps (80MHz)
- 802.11a: 54, 48, 36, 24, 18, 12, 9 and 6Mbps
- 802.11b: 11, 5.5, 2 and 1 Mbps
- 802.11g: 54, 48, 36, 24, 18, 12, 9 and 6 Mbps
- Beam forming
- Band steering

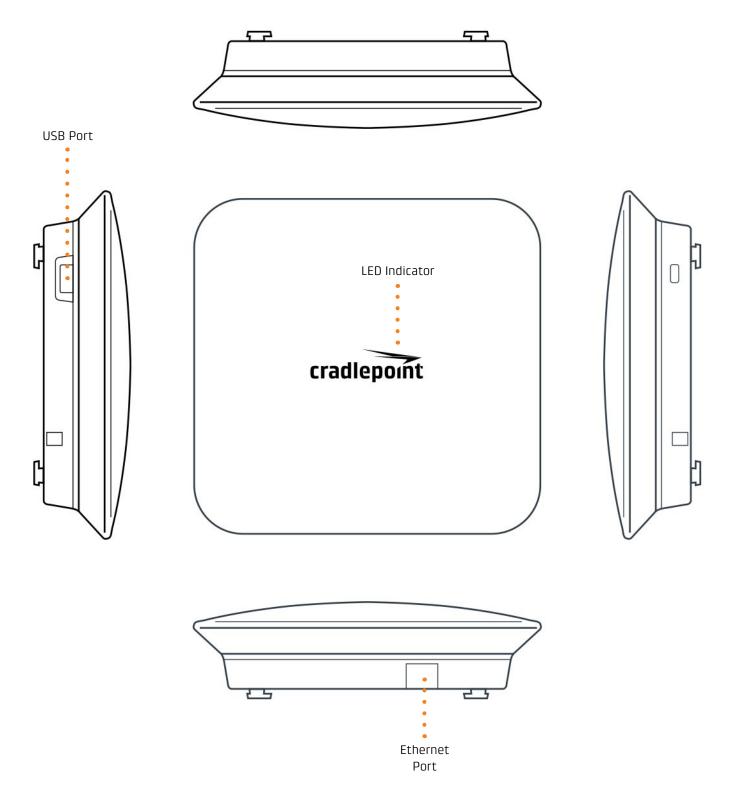
WiFi (Standards-based):

- 802.11k Radio Resource Management Client load balancing
- 802.11r Fast Roaming
- 802.11v Wireless Network Management



HARDWARE

TOP & SIDES



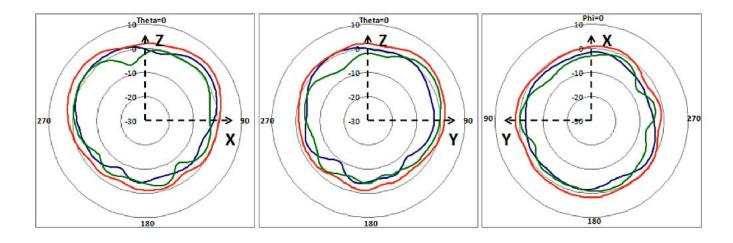


ANTENNA RADIATION PATTERNS

2x2 RADIO ANTENNA PATTERN - ANTENNA 1-2

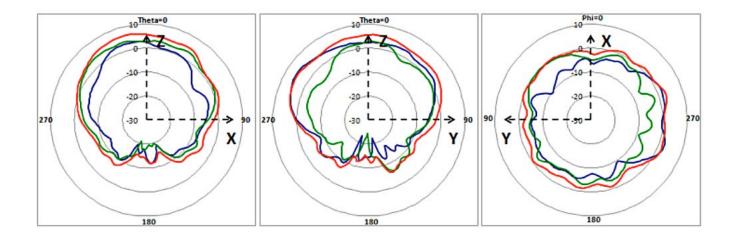
2.4GHz

Radiation Pattern for ANT. 1(green) & 2 (blue) for 2450MHz; (red is directional gain)



5 GHz

Radiation Pattern for ANT. 1(green) & 2 (blue) for 5550MHz; (red is directional gain)

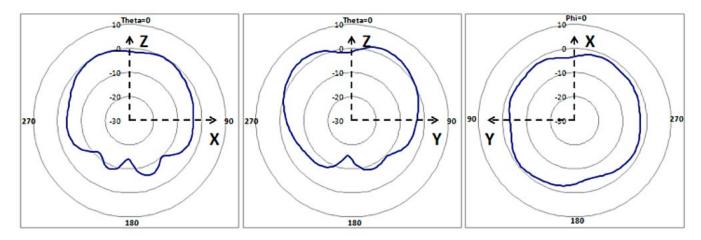




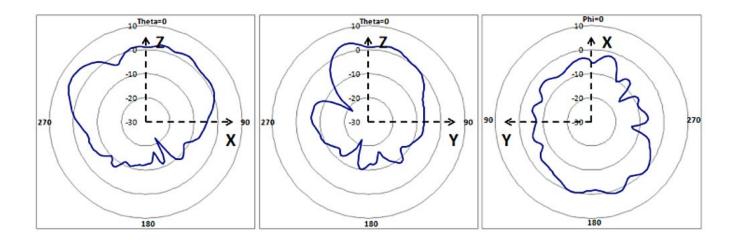
1x1 RADIO ANTENNA PATTERN - ANTENNA 3

2.4 GHz

Radiation Pattern for ANT. 3 (blue) for 2450MHz



5 GHzRadiation Pattern for ANT. 3 (blue) for 5550MHz





LEDS

INDICATOR	BEHAVIOR
cradlepoint	POWER: Green = Powered ON. Pulsing Green = Booting kernel Green Fade to White = Fully booted White = Working properly Red = No connectivity Pulsing Red = Assigning IP Address Pulising Amber = Firmware update in process Orange = Attention Blinking Blue = Resetting
LAN	LAN:Speed (left-hand LED)Link/Activity (Right-hand LED)

SUPPORT & WARRANTY

The AP22 is only sold as a component of NetCloud Solution Packages.

- NetCloud Solution Packages include support for the full subscription term.
- All Cradlepoint hardware products are covered by a Limited Lifetime Warranty for as long as they are under a NetCloud Solution Package subscription

The AP22 includes a minimum three-year hardware warranty when purchased from an authorized Cradlepoint Partner.

