



cnPilot™ Home & Small Business Wireless Router Release Notes

For R200x and R201x

System Release 4.3.1

Sections Included:

- Supported Platforms
 - Supported Features
 - Problems Corrected
 - Known Issues and Limitations
 - Technical Support
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Introduction

This document provides information for the Cambium Networks cnPilot R200/R201 System Release 4.3.1. Release 4.3 includes the features and functionalities from 4.2.3 by adding IPv6 support, as well as several important bug fixes that will be noted in [Problems corrected \(System Release 4.3\)](#).



Note

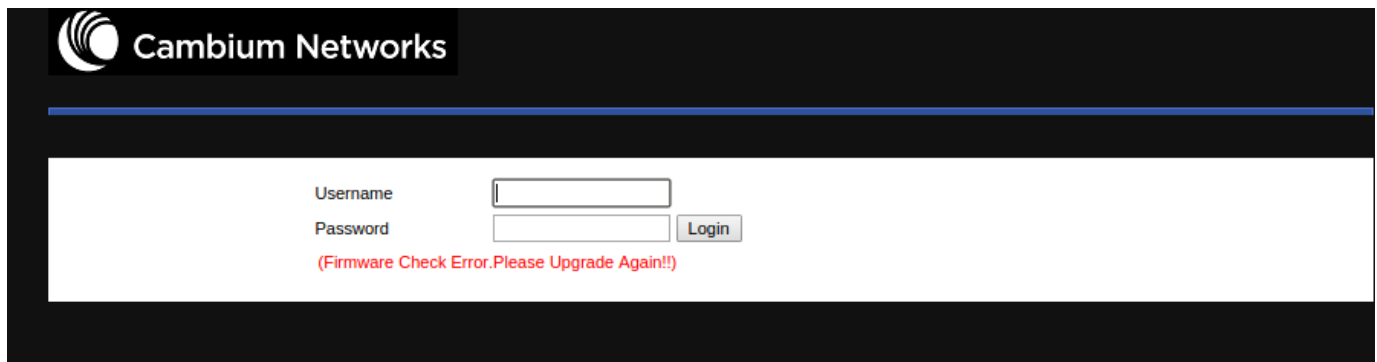
Telnet service is disabled in System Release 4.3.1.

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Upgrade Procedure

Due to a newer flash memory layout used in 4.3 firmware, upgrades from older version to 4.3 need to be done twice while upgrading from the UI of cnPilot R200/201.

After the first time upgrade, the user will see a message “(Firmware Check Error. Please Upgrade Again!!)” in the login page of the device.



After the second upgrade, no such message will be seen and device will be fully upgraded.



Note

To downgrade the device, just one time downgrade is needed.

Current Firmware	New Firmware	Comments
4.2.3-R4 or older	4.3 or newer	Upgrade with the “New firmware” 2 times
4.3 or newer	4.2.3-R4 < version < 4.2	Downgrade just once
4.3 or newer	Older than 4.2	Not available

Overview

The cnPilot Home & Small Business router with VoIP is a managed device (that yet has the ability to act as a stand-alone router if desired). In addition to WiFi, this product provides high quality voice calls as well as the optional ability to power Cambium's ePMP series subscriber module or the PMP450 series subscriber module by supporting Cambium's (Canopy) PoE. For voice calls, the product is fully compatible with the SIP industry standard and is able to interoperate with many other SIP devices and software on the market.



Note

Telnet is disabled from the WAN IP as well as from the LAN IP.

Supported Platforms

The following table provides details on the supported platforms:

Port / Interface	cnPilot Home R200	cnPilot Home R200P	cnPilot Home R201	cnPilot Home R201P	cnPilot Home R201W
WAN	1xFE in RJ45		1xGE in RJ45		
LAN	4xFE in RJ45		4xGE in RJ45		
Wi-Fi	2X2 2.4GHz 802.11 b/g/n		2X2 2.4GHz 802.11 b/g/n (300 Mbps)		
	No		2X2 5GHz 802.11ac (867 Mbps)		
USB	1X USB 2.0		1X USB 2.0		
VoIP	2xFXS in RJ11		2xFXS in RJ11		No
Cambium PoE (Power over Ethernet) Out	No	Yes	No	Yes	Yes
Power Adapter	12V/2A	12V/3A	12V/2A	12V/3A	12V/3A
cnMaestro Managed	Yes	Yes	Yes	Yes	Yes

Features Supported in R200/201

The following table lists the major features that are supported in cnPilot R200/201:

Feature	
Wireless	<ul style="list-style-type: none"> • Protocol 802.11 b/g/n/ac • Security WEP, WPA-PSK (TKIP), WPA-PSK (AES), WPA2-PSK (TKIP), WPA2-PSK (AES), Mixed mode • SSID 4 per radio • Others

	AP isolation, MBSSID AP isolation, WMM, MAC Filter, WDS, WPS
Call	<ul style="list-style-type: none"> • IP Signaling SIP V2 (RFC3261/3262/3263/3264) • VOICE CODEC G.711 (A-law, μ-law), G.722, G.723, G.729 • FAX OVER IP Real Time FAX over IP via T.38 T.30 Fax with G.711 • VOICE Features Adaptive jitter buffer management Voice Activity Detection Comfort Noise Generation Echo Cancellation • Complementary Features 3-way Conference Call hold, Call forwarding, Call transfer, Call waiting, Speed dial, Hotline, Dial plan Caller ID, Black list, Call log

Features Supported in 4.3 Release

This section lists the features supported in this release of cnPilot R200/201.

IPv6 Support

DHCPv6 protocol is used to automatically provision/configure IPv6 capable end points in a local network. In addition to acquiring an IPv6 IP address for the WAN interface and its associated LAN/WLAN clients, the R200/201 devices are also capable of prefix delegation.

The R200/R201 devices support the following types of modes of IPv6 addresses:

- Stateless DHCPv6
- Statefull DHCPv6

For more details, please refer *cnPilot Home & Small Business Wireless Router User Guide System Release 4.3*.

Provisioning Configuration

The cnPilot R200/201 devices supports Provisioning which allows a device automatically resync to specific configuration file or auto-upgrade the device. CnPilot R200 and R201 supports TFTP and HTTP or HTTPS for provisioning. Automatic provisioning is enabled in the factory default configuration of the device and default configuration file is Cambium-cnPilot-R.cfg.

Using TFTP

Navigate to **Administration > Provision** in the UI.

Field	Description
Provision Enable	To enable provisioning configuration
Option 66	To enable Option 66
Config File Name	The default configuration filename is \$MA.cfg

Reboot the router once the above fields are configured. The DHCP server enable option 66 and it will provide IP address of a single TFTP server. Device sends TFTP request and WAN MAC address as file name (00045604b001.cfg) to the TFTP server. If the configuration file name is not specified, the device will resync periodically for every 3600secs with the default configuration file **Cambium-cnPilot.cfg**.

Using HTTP/HTTPS

Navigate to **Administration > Provision** in the UI.

Field	Description
Provision Enable	To enable provisioning configuration
Option 66	To enable Option 66
Config File Name	\$MA.
Profile Rule	https://192.168.11.104/\$MA.cfg.

Reboot the router after configuring the above fields.



Note

First time it downloads and updates the configuration file. Second time it only request using TFTP and will not download.

Problems corrected (System Release 4.3)

This section lists the problems corrected in 4.3 release of cnPilot R200/201:

Tracking	Description
RBN-154	The hostname/product name was not aligned properly for 201w.
RBN-172	The wireless 5GHz channel was displayed incorrectly as channel 1 in the status.
RBN-178	The Security > Content filtering feature did not work properly.
RBN-183	Due to security vulnerability, the RSA keys and device certificate needs to be generated on first boot up.
RBN-190	An error was displayed while uploading the configuration file with an encrypted password.
RBN-196	A warning message should be displayed when default admin password is used.
RBN-205	The configuration exported from cnMaestro was not a clear text.
RBN-209	LAN throughput issue was observed in R201.
RBN-210	The incoming audio call failed in 4.2.3-R4.
RBN-218	The default name for provision configuration file was changed to Cambium-cnPilot-R.cfg
CNSDA-262	An event was sent to cnMaestro for the default password which was reported on cnMaestro alarm.

Known issues (System Release 4.3)

This section lists the known issues and limitations in this release of cnPilot R200/201:

Tracking	Description
RBN-192	Roku Streaming Stick, Atheros 9285,and Nest Thermostat are not able to connect with 5 GHz SSID of R201.
RBN-208	SIP register issue is observed with TLS encryption.
RBN-221	Issue with adding static route via the GUI
RBN-222	SIP with IPv6 is not supported.

Technical Support

For technical support, see

<http://www.cambiumnetworks.com/support>

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