

Rack Mounting Installation

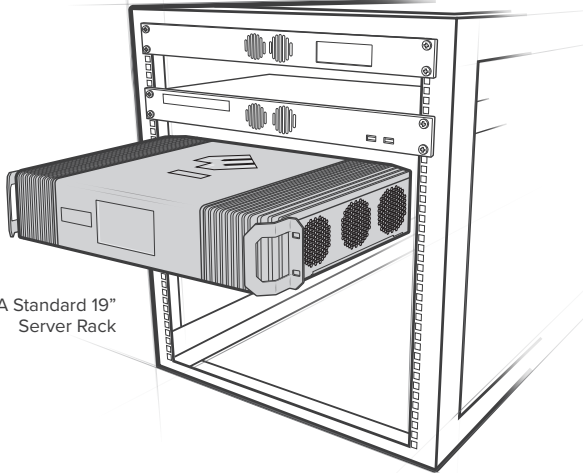
Mount to EIA Standard 19" Server Rack (compliant with EIA-310-D) with 4 standard #10 or #12 cage Screws and Nuts.

Please reference the below diagram:



Standard #10 or #12
Cage Screws & Nuts

EIA Standard 19"
Server Rack

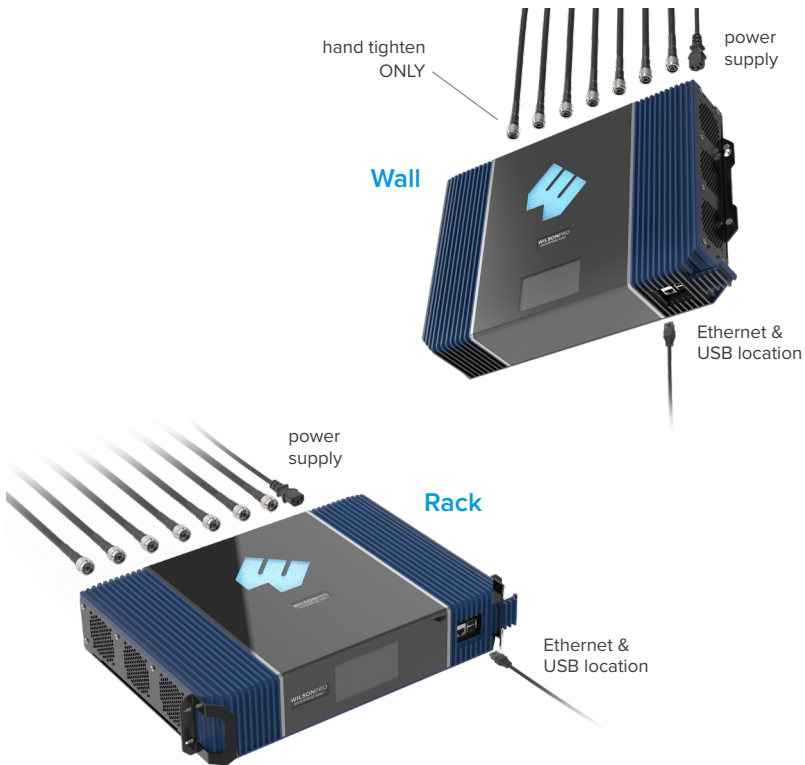


WARNING: Proper installation environment to reduce risks related to the environment, the unit must be installed indoors only. It is the consumer's responsibility to ensure that structural engineering requirements for potential seismic activity are met per your local requirements. This may require wall reinforcement. Do not install near sources of high heat or steam or where condensation is likely to occur, such as near air conditioners. Do not install on a structure that is prone to vibration or movement. The power supply must be plugged into an earthed outlet ONLY.

Post-Install Setup

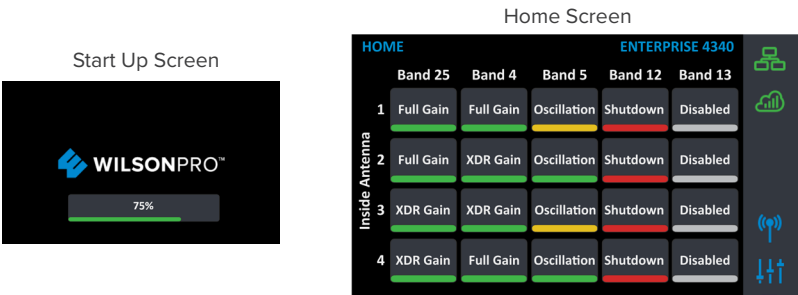
The Enterprise 4340 systems are designed with advanced internal programming, which allows it to automatically adjust for a variety of conditions, including the added functionality, alerts, and troubleshooting of an enhanced cloud management and monitoring solution.

Once the AC power cable and antenna cables are connected, scan the QR code on the Quick Registration Card to add the amplifier to your WilsonPro Cloud account. For detailed instructions see the WilsonPro Cloud section.



Menu System

The Enterprise 4340 takes about 3 minutes to boot up. Once boot up is complete, the home screen will appear, showing the amplification and status of each port and band.



Band Menu Color Description



Green indicates that a band is operating correctly with maximum allowable gain.



Yellow indicates band gain reduction because of an oscillation condition. Reposition antennas (increase separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit off & on) the Enterprise 4340 system to reactivate the band and maximize performance. When adequate separation is achieved, the yellow lights will return to green upon reboot.

Note: when the light is yellow, the band is operational; however, performance is reduced.

(MENU SYSTEM cont.)



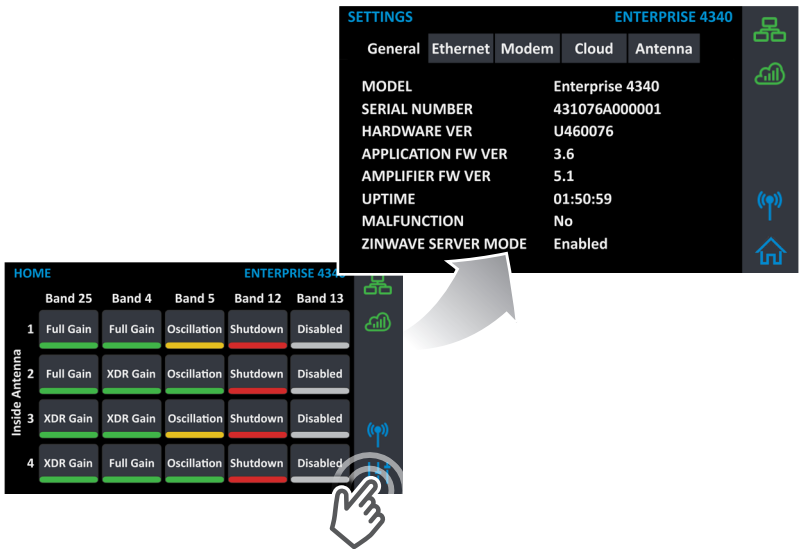
Red indicates a band has been shut down because of a severe oscillation condition or repeated oscillation. Reposition antennas (increase separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit off & on) the Enterprise 4340 system to reactivate the band and maximize performance. When adequate separation is achieved, the red light(s) will return to green upon reboot.



Gray indicates band has been disabled.

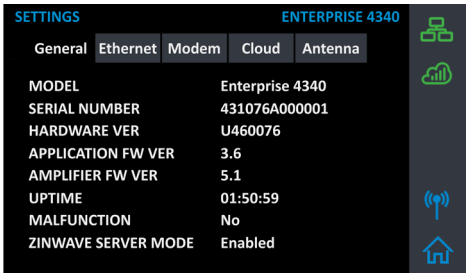
Settings Screen

Tap **'Settings Icon'** in the lower right corner to view the Settings Screen.

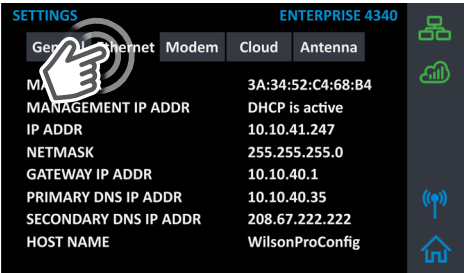


There are 5 Settings Screens represented by “tabs”. Tap the tab heading to view each Settings Screen. General settings below.

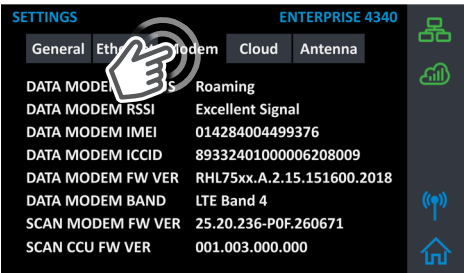
Note: Bands and Ports are disabled or enabled from the Cloud or Local Amplifier Configuration Utility only.



Ethernet Settings Tab



Modem Settings Tab



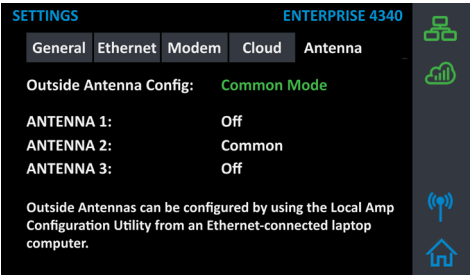
Cloud Communication Settings Tab

Note: The Reset Local Comm button is used in case the user has configured the amplifier such that the Local Amplifier Configuration Utility (LACU) is not accessible, e.g., if the communication preferences are set to “LTE Only” or the LACU password needs to be reset. The “reset” function will renable Ethernet access and also reset the login credentials for LACU to factory defaults.



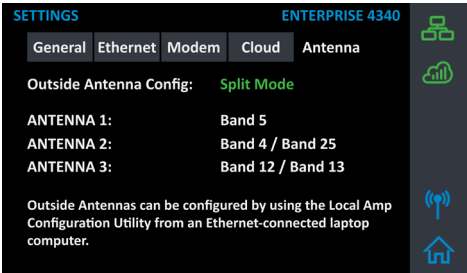
Antenna Settings Tab

Common Mode is configured from the Local Amplifier Configuration Utility and should be set when using a single Outside Antenna.

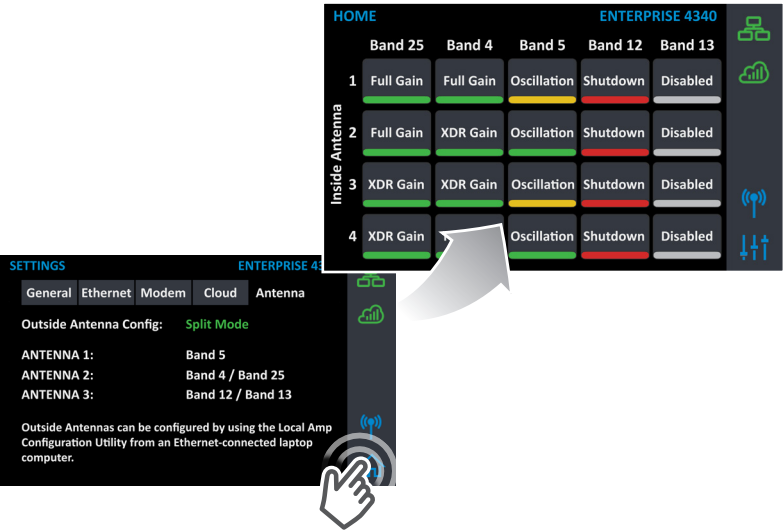


Split-Mode Configuration

Split Mode is configured from the Local Amplifier Configuration Utility and should be set when using separate Outside Antennas for Band 4/25, Band 5, and Band 12/13.

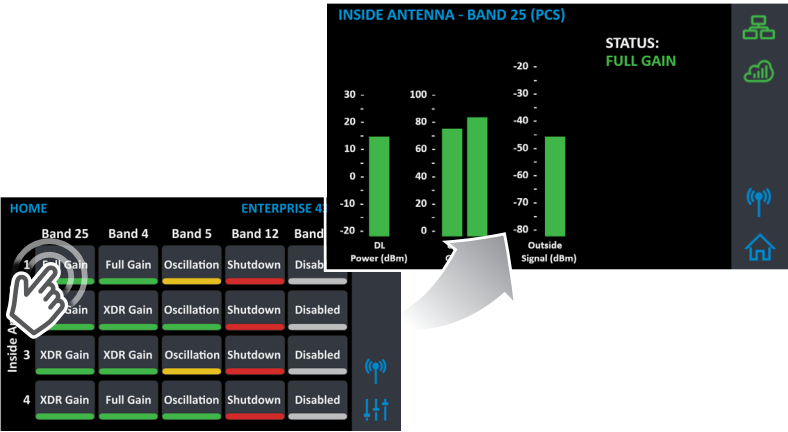


To go back to the Home Screen, tap on the **Home Icon** (in the lower right corner).

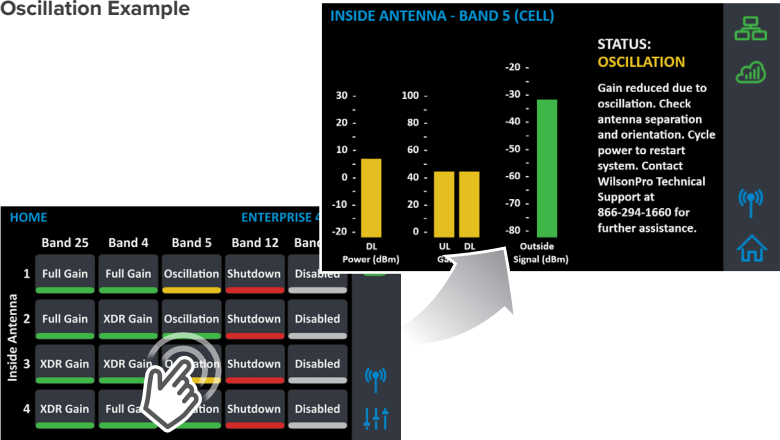


Band-Status Screens

To view specific band information (such as the strength of the received uplink & downlink signal, outside signal strength, and amplifier gain status) tap the desired band on the home screen.



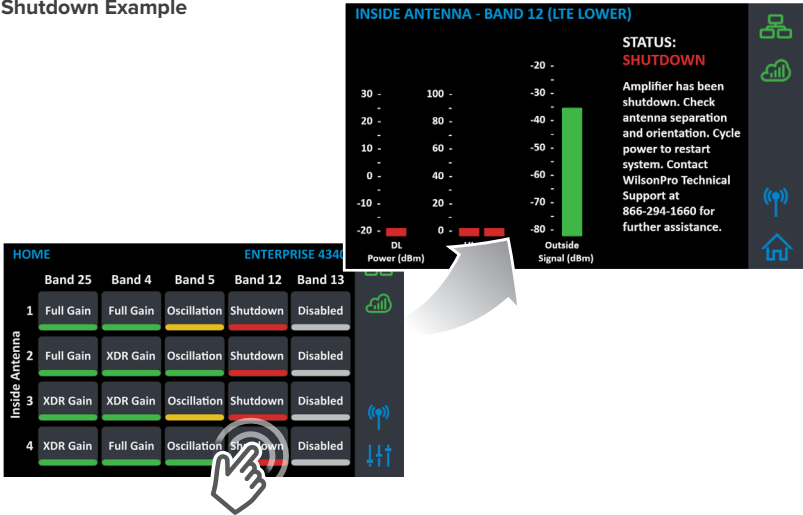
Oscillation Example



Note: If the reduced gain due to oscillation is greater than or equal to 60dB, the condition will be displayed as Green and no action is necessary.

(MENU SYSTEM - BAND-STATUS SCREENS cont.)

Shutdown Example



Connectivity Status Screens

The three icons in the upper right provide status related to the Ethernet connection, Cloud connection, and USB device (if inserted).

Ethernet-Status Icon

HOME

ENTERPRISE 4340

	Band 25	Band 4	Band 5	Band 12	Band 13
1	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
2	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
3	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
4	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain

Inside Antenna

ETHERNET STATUS

ENTERPRISE 4340

STATUS: Ethernet Connected To Network

Amplifier is configured to use Ethernet and has a good connection to the network.

Amplifier is configured to use Ethernet and has a connection to a non-networked device (e.g., a laptop).

Amplifier is configured to use Ethernet but has no active connection.

Amplifier is not configured to use Ethernet.

An "underscore" beneath the Ethernet icon indicates an active connection. A double underscore indicates traffic.

Cloud-Status Icon

HOME

ENTERPRISE 4340

	Band 25	Band 4	Band 5	Band 12	Band 13
1	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
2	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
3	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain
4	Full Gain	Full Gain	Full Gain	Full Gain	Full Gain

Inside Antenna

CLOUD COMM STATUS

ENTERPRISE 4340

STATUS: Registered, Good Signal

Amplifier is configured to use LTE and there is a good connection to the Cloud. Bars indicate signal strength.

LTE modem is registered but has no connection to the Cloud. Signal strength is too low to carry data.

Amplifier is configured to use LTE but there is no connection to the Cloud. The LTE modem is not registered.

Amplifier is not configured to use LTE.

An "underscore" beneath the Cloud icon indicates an active connection. A double underscore indicates traffic.

(MENU SYSTEM - CONNECTIVITY STATUS SCREENS cont.)

The Cellular Network Scan screen provides RSRP (Reference Signal Received Power) and RSRQ (Reference Signal Received Quality) for major cellular carriers in U.S. in Canada, measured at the indoor antenna ports (after the signal has been amplified). Band, frequency, bandwidth and cell I.D. are also shown for all cell tower channels found during scanning. Scanning begins as soon as the unit is power on, and is automatic, and continuous. A full scan cycle takes about three minutes to scan all bands and frequencies. Verizon, AT&T, and T-Mobile are reported in the U.S. and Rogers, Telus, Bell, and Freedom are reported in Canada.

Cellular Network Scanning Screens



Safety Guidelines

Warnings

To uphold compliance with network protection standards, all active cellular devices must maintain at least 1.8 m (6 feet) of separation distance from Panel and Dome antennas.

Use only the power supply provided in this package. Use of a non-Wilson Electronics product may damage your equipment.

The Signal Amplifier unit is designed for use in an indoor fix location, temperature-controlled environment (operating temperature ranges from 0°C to 35°C (32°F to 95°F). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

RF Safety Warning: Any antenna used with this device must be located at least 20.3 cm (8 in) from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.

CAUTION: Double pole, neutral fusing. Disconnect mains before servicing.

Kit Components

The following accessories are certified to be used with the **ENTERPRISE 4340**.

	B12/17	B13	B5	B4	B25/2
Outside antenna maximum permissible antenna gain less coax loss (dBi) 50Ω	3.576	3.21	3.012	2.048	1.918
Inside antenna maximum permissible antenna gain less coax loss (dBi) 50Ω	-2.43	-1.69	-2.79	-0.33	-1.29

314411
Wide Band Directional Antenna
(Outside Antenna)

952300
30 m (100 ft.) Wilson400 Cable
(for Outside Antenna)

304412
Dome Antenna (Inside antennas)

311242
Dome Antenna (Inside antennas)

952300
30 m (100 ft.) Wilson400 Cable
(for Inside Antennas)

859902
50 Ohm Lightning Surge Protector

952302
60 cm (2 ft.) Wilson400 Cable

ANT000040
Terminal Mount Hinged Antenna

All equivalent or lesser antennas and cables are suitable for use with 4340 signal boosters.

Specifications

Model Number	460076 / 461076				
FCC ID	PWO076				
IC ID	4726A-076				
Connectors	N-Connectors				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 729-756 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
Power output for single cell phone (Uplink) dBm	700MHz Band12/17	700MHz Band13	800MHz Band 5	1700MHz Band 4	1900MHz Band 25/2
	21.9	24.5	21.5	23.7	22.6
Power output for single cell phone (Downlink) dBm	700MHz Band12/17	700MHz Band13	800MHz Band 5	2100MHz Band 4	1900MHz Band 25/2
	-3.9	-4.7	-2.1	-2.2	-0.3
Noise Figure	5 dB nominal				
Isolation	> 90 dB				
Power Requirements	120...240V / 50...60 Hz / 1.4...0.7A				

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met.

Each Signal Amplifier is individually tested and factory set to ensure FCC compliance. The Amplifier cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Amplifier will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Amplifier is not in use for five minutes, it will reduce gain until a signal is detected. If a detected signal is too high in a frequency band, or if the Signal Amplifier detects an oscillation, the Signal Amplifier will automatically turn the power off on that band. For a detected oscillation the Signal Amplifier will automatically resume normal operation after a minimum of 1 minute. After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Amplifier has been manually restarted by momentarily removing power from the Signal Amplifier. Noise power, gain, and linearity are maintained by the Signal Amplifier's microprocessor.

This device complies with the limits for a Class B digital device pursuant to Part 15 of FCC rules. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Wilson Electronics LLC could void the authority to operate this equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by Wilson Electronics LLC could void the authority to operate this equipment.

 This product conforms to UL/CSA STD 62368-1 for US and Canada.

NEED HELP?

 support@wilsonelectronics.com

 866.294.1660

Warranty

✓ 30 DAY MONEY-BACK GUARANTEE

All WilsonPro products are protected by WilsonPro 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

✓ 3 YEAR WARRANTY

WilsonPro Amplifiers are warranted for three (3) years against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Signal Amplifiers may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by WilsonPro. WilsonPro shall, at its option, either repair or replace the product.

This warranty does not apply to any Signal Amplifiers determined by WilsonPro to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

Replacement products may include refurbished WilsonPro products that have been recertified to conform with product specifications.

RMA numbers may be obtained by contacting Customer Support.

DISCLAIMER: The information provided by WilsonPro is believed to be complete and accurate. However, no responsibility is assumed by WilsonPro for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

MARKETING APPROVAL: Installer and end customer hereby grants to Wilson Electronics the express right to use installers or end customers company logo in marketing, sales, financial, and public relations materials and other communications solely to identify Customer as a Wilson Electronics customer.



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For patents go to: weboost.com/us/patents



THIS PRODUCT CONFORMS TO UL/CSA STD 62368-1 FOR US AND CANADA