



# Accelerated Concepts Cellular Extender



## 6200-FX User Guide

Version 2.3

## **Preface**

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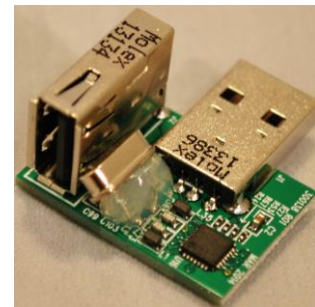
## Unpacking the 6200-FX – Package Contents

Each 6200-FX package contains the following Items:

- Accelerated USB Cellular Extender - 6200-FX
- Quick Start Guide
- 12V Power Adapter
- Temporary Battery Pack
- Ethernet Cable
- Passive Power over Ethernet (PoE) injector cable
- Mounting Screws and Ceiling Rail Clips
- USB Conditioner (optional: not include with all units)



**6200-FX Cellular Extender**

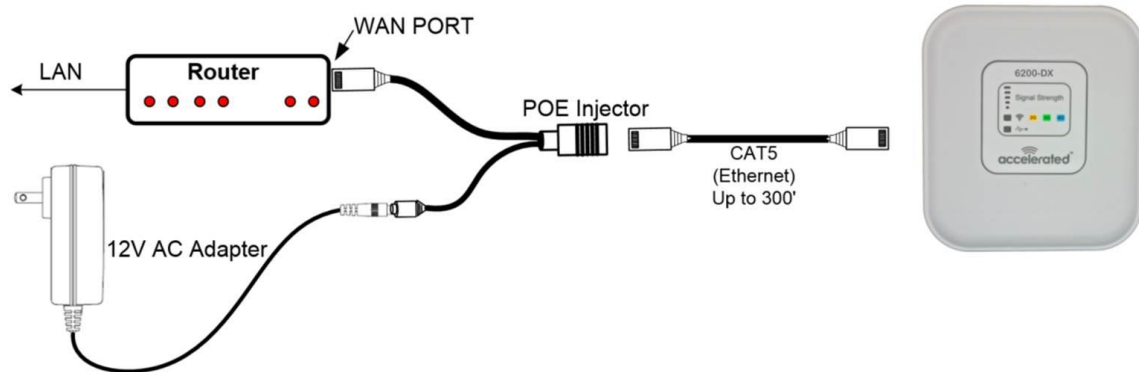


**USB Conditioner**

## Remote Power (PPoE)

One of the biggest limitations in laying out a robust cellular network is the availability of power. Running power cabling is also a primary cost driver of cellular installations. All Accelerated Concepts products provide delivery of both data and power over a single Ethernet cable. This allows deployment of devices exactly where they are needed to provide the best cellular coverage at a much lower installation cost.

It is not necessary to co-locate the 6200-FX with other telecommunication equipment. The 6200-FX is designed to be positioned for optimal cellular signal strength. The built-in signal strength meter and optional temporary battery pack are to be used to identify the optimal installation location. The 6200-FX should be powered either directly using the included 12V power adapter or over an Ethernet Category 5 cable via Passive Power over Ethernet (PoE) and the included power injector cable. This allows the device to be mounted on high walls, suspended from the ceiling, or even placed in a building attic. Below is a diagram detailing how to properly connect and apply remote power to the 6200-FX through the Passive PoE injector cable.



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## Cellular Modem Support

The 6200-FX supports a variety of USB cellular modems. The unit has two USB 2.0 ports (one internal and one external) that support the latest USB cellular modems from major manufacturers including: Franklin, Huawei, LG, Novatel, Ovation, Pantech, Sierra Wireless, NetGear, and ZTE. A complete list of supported modems can be found on our website [acceleratedconcepts.com/support/modems](http://acceleratedconcepts.com/support/modems).

The 6200-FX supports: LTE, HSPA+, HSPA21, HSPA42, and EVDO.

## Setting Up the 6200-FX

Some 6200-FX devices are shipped with a USB Conditioner. If you are using an AT&T Beam, AT&T Momentum or the Sprint 341U modem, you will have the USB Conditioner. Please follow the instructions for inserting your modem in section “A” of this guide. All other modems please skip to section “B” for instructions.

### **A: Inserting the Cellular Data Card / Modem**

Remove the modem cover by loosening the Phillips head screw on the bottom of the case, turning it counter clockwise.



**Figure 1: Step 1, Remove Phillips screw**

After removing the 6200-FX door screw, remove the door by sliding it to the right.



**Figure 2: Step 2, Slide door to right**

First, insert USB optimizer into 6200-FX device. For the AT&T Beam, fold the USB connector to its open position. Then position USB modem with logo facing downward. Once this is done, twist USB connector that is attached to the AT&T Beam clockwise (turn toward yourself) **TWO** clicks.



**USB Conditioner**

**Figure 3**

Insert the USB modem connector into the USB conditioner on the 6200-FX. Replace the door and loosely tighten door screw. **IMPORTANT:** When inserting AT&T Beam USB device, the logo needs to be facing downward (away from you) as shown in picture (Figure 4).



**Figure 4**

## B: Inserting the Cellular Data Card / Modem without USB Conditioner

Remove the modem cover by loosening the Phillips head screw on the bottom of the case, turning it counter clockwise.



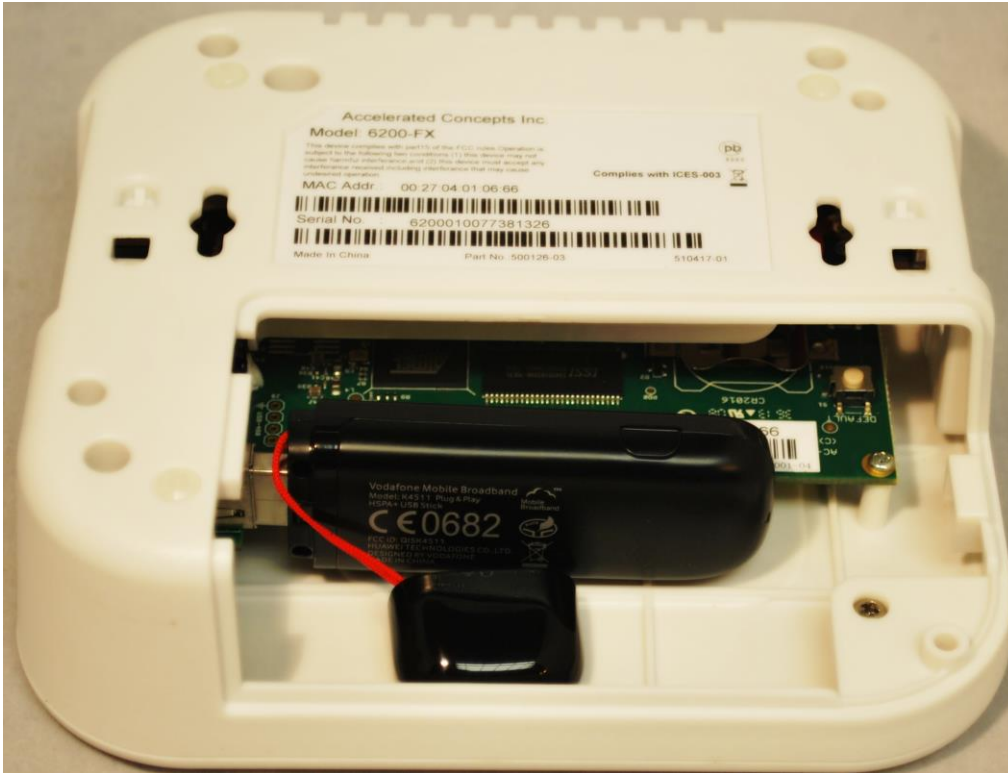
Figure 2: Step 1, Remove Phillips screw

After removing the 6200-FX door screw, remove the door by sliding it to the right.



**Figure 2: Step 2, Slide door to right**

Once you have removed the door, insert the modem into the USB port on the inside of the 6200-FX. After modem is installed, replace the door and loosely tighten door screw.



**Figure 3: Step 3, insert modem**

## Optimal Placement using Optional Temporary Battery Pack

The 6200-FX comes with a **temporary** battery pack<sup>1</sup> and a built-in Signal Strength Meter. The SSM is located on the center of the front panel as shown in Figure 1.



**Figure 1**

---

<sup>1</sup> Please remove temporary battery pack prior to applying another power source.

The Signal Strength Meter indicates weak to strong signal strength by lighting a set of progressing indicators. The more lights, the better the signal. It is important to remove the battery pack before plugging another source of power into the 6200-FX.



The LEDs will illuminate and show the current signal strength. Read the current signal strength by assessing the indicators lit from top to bottom. For Example:



Move the 6200-FX device to all possible locations in the facility, making note of the signal strength in each location. It is important the device remain stationary for 30 seconds to obtain an accurate reading of the signal strength for each potential installation location. Continue to investigate locations to determine optimal placement with maximum signal strength.

## Correlation of Signal bars to CSQ and dBm

SIGNAL	CSQ	dBm	Signal Strength	Quality
1	0 to 4	-110 to -106	0-11	Bad
2	5 to 9	-105 to -96	12-28	Marginal
3	10 to 14	-95 to -84	29-47	OK
4	15 to 18	-83 to -76	48-60	Good
5	19 to 31	-75 to -50	61-100	Excellent

## Mounting the 6200-FX

The 6200-FX comes with a variety of mounting options that make it extremely easy to install in an office or store environment. There are three mounting options for the 6200-FX, traditional screw mounting, zip tie mount, or ceiling clip mounting.

The unit can be installed using traditional screws. There are two (2) mounting holes in the back of the unit. Simply insert the screws into the mounting location and slip the 6200-FX over the screws and seat.



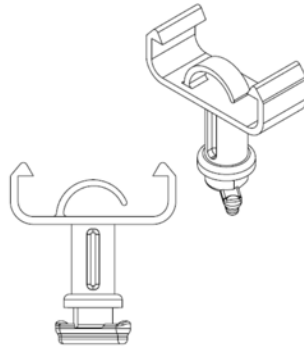
**Figure 1: Screw mount holes**

If the unit cannot be mounted using screws due to where it needs to be placed, it can also be secured using standard zip ties. The 6200-FX has two (2) holes specifically designed to allow zip ties to be used. Simply slide one end of the zip tie through the guides and attach to any supporting structure.



**Figure 2: Zip Tie Guides**

In some office locations it may be impractical to use wall screws or zip ties. For those locations the 6200-FX comes with ceiling clips that allow for direct connection to the rails of any standard dropped ceiling. Two different sized clips are provided for standard and narrow drop ceiling rails. To attach the clips to the 6200-FX, insert a clip into each of the screw mounting holes (see Figure 1 under “Mounting the 6200-FX”) and **twist 1/8 of a turn clockwise** until the clip locks securely in place (do not force or over rotate). After attaching both clips to the 6200-FX, attach the clips to a drop ceiling rail.



**Figure 3: Ceiling Rail Snaps**

## Setting up Remote Power

If remote power is necessary, a Passive Power-Over-Ethernet (PoE) injector is included with every 6200-FX.

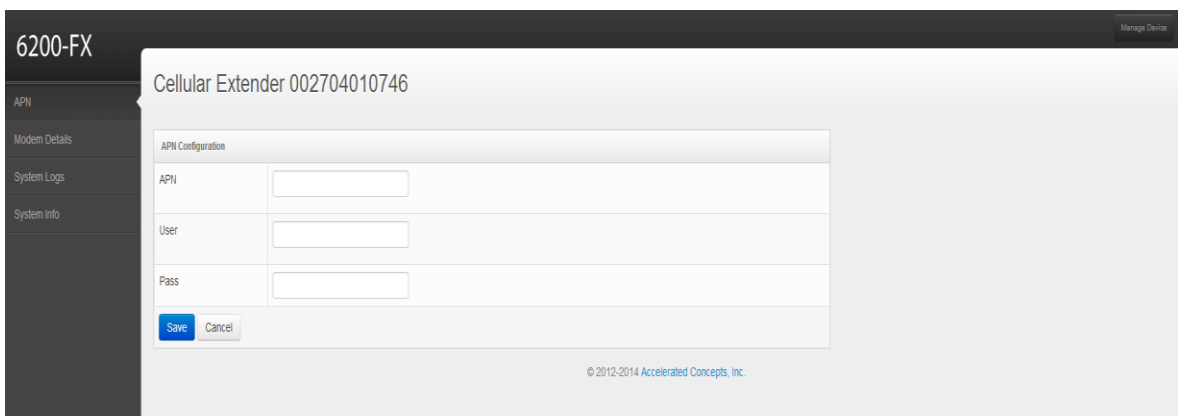
- Plug the 12V power adapter into the female 2.1mm plug on the Passive PoE injector.
- Plug the **male** RJ-45 Ethernet plug of the Passive PoE injector into the Router or other end device. Plug the **female** RJ-45 Ethernet plug of the Passive PoE injector into the 6200-FX. The length has been tested to over 300 feet with standard Category 5 cabling.
- PoE DC - Red LED that indicates DC Power Adapter is connected to PoE Cable with power.
- PoE PWR - Green LED That indicates Cat 5 Ethernet Cable is connected to 6200-FX unit with power.
- When both the RED and GREEN lights are illuminated, everything is connected properly.



## Local Graphical User Interface (GUI)

A web based user interface is available for configuring the Access Point Name (APN) that the 6200-FX should use to login to the cellular network. It is also used for determining why the radio will not connect to the cellular network (troubleshooting). Most users will not have a need to enter the web-based interface on the Accelerated Concepts 6200-FX since the unit comes preloaded with most carrier APNs. Usage is typically for problem determination and installation only.

To access the webpage go to <http://192.168.210.1>. Once logged in the following panels will be displayed.



The screenshot shows the web-based GUI for the 6200-FX device. The main header is "6200-FX" with a "Manage Device" link in the top right. A left sidebar contains navigation options: "APN", "Modem Details", "System Logs", and "System Info". The main content area is titled "Cellular Extender 002704010746" and contains an "APN Configuration" form. The form has three input fields labeled "APN", "User", and "Pass". Below the fields are "Save" and "Cancel" buttons. A copyright notice "© 2012-2014 Accelerated Concepts, Inc." is visible at the bottom of the form area.

**Figure 3: APN Panel**

6200-FX Manage Device

Modem Settings

Modem Details

System Settings

System Logs

System Info

### Cellular Extender 002704010746

Modem: SierraWireless 313a

Carrier:	at&t
APN:	broadband
User:	not_used
Password:	not_used
Signal Strength:	-71
Signal %:	67
Phone Number:	[REDACTED]
IMEI:	[REDACTED]
IMS:	[REDACTED]
MCC:	310
MNC:	410
ICCID:	[REDACTED]
PDPCID:	1
Revision:	SW9200X_03.05.10.02AP
RSSI:	-1
CSQ:	21
SINR:	0.000
ECIO:	0.000
SNR:	-99.000
CNTL:	LTE
CID:	0AB75A0F
LAC:	FFFE
Roam:	0
Type:	sw313

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**Figure 4: Modem Details**

6200-FX Manage Device

Cellular Extender 002704010746

System Log

```

Jun 13 21:16:22 nbfx100 syslogd 1.5.0: restart.
Jun 13 21:16:27 nbfx100 Jun 13 21:16:27 002704010746 log: eth0addr: 00:27:04:01:07:46
Jun 13 21:16:27 nbfx100 Jun 13 21:16:27 002704010746 log: bootpart: b
Jun 13 21:16:27 nbfx100 Jun 13 21:16:27 002704010746 log: NetBridgeFX 2.301.31
Jun 13 21:16:29 nbfx100 Jun 13 21:16:29 002704010746 log: Configured timezone is -300 minutes from GMT.
Jun 13 21:16:32 nbfx100 Jun 13 21:16:32 002704010746 log: Event vector 13.0.4.0.0.0.
Jun 13 21:16:32 nbfx100 Jun 13 21:16:32 002704010746 log: Configuration is new.
Jun 13 21:17:06 nbfx100 Jun 13 21:17:06 002704010746 log: Modem in normal 3G/2G mode
Jun 13 21:17:07 nbfx100 Jun 13 21:17:07 002704010746 log: Registration Status: [registered on home network]
Jun 13 21:17:08 nbfx100 Jun 13 21:17:08 002704010746 log: Modem is su313
Jun 13 21:17:08 nbfx100 Jun 13 21:17:08 002704010746 log: Provider recognized (at&t). Using provider's APN credentials
Jun 13 21:17:09 nbfx100 Jun 13 21:17:09 002704010746 log: Modem 0F3d:68aa su313 1-2 [SierraWireless 313v].
Jun 13 21:17:09 nbfx100 Jun 13 21:17:09 002704010746 log: Modem APN 'broadband'
Jun 13 21:17:10 nbfx100 Jun 13 21:17:10 002704010746 log: Modem USER 'not_used'
Jun 13 21:17:10 nbfx100 Jun 13 21:17:10 002704010746 log: Modem PWD 'not_used'
Jun 13 21:17:10 nbfx100 Jun 13 21:17:10 002704010746 log: Modem DIAL 'ATD***1*'
Jun 13 21:17:10 nbfx100 Jun 13 21:17:10 002704010746 log: Modem INIT **

```

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Figure 5: System Logs

6200-FX Manage Device

Cellular Extender 002704010746

System Details

Firmware Revision:	2.301.31
Uptime:	21:20:07 up 3 min
Load Average:	0.35, 0.42, 0.19
Starts:	14
Restarts:	4
Status Updates:	1

USB Devices

```

Bus 001 Device 001: ID 146b:0002
Bus 002 Device 001: ID 146b:0001
Bus 001 Device 003: ID 0F3d:68aa

```

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Figure 6: System Info

## IP Addressing

The Accelerated Concepts 6200-FX can be configured to act as a transparent IP bridge. By definition this requires that the 6200-FX appear invisible to the network and end device. To accomplish this task the 6200-FX appears to the cellular carrier as the end device and it appears as the carrier providing an address via DHCP to the end device. The end device has no need to know that cellular communication is involved in the connection.

### NAT IP Range

This feature allows a 6200-FX to operate in NAT mode. While in this mode, the 6200-FX can be provided with a specific IP address for the 6200-FX along with a network range for assigning IP addresses to multiple DHCP clients. Using this feature and an Ethernet Network Hub, the 6200-FX can assign an IP address to multiple devices at one time.

To use this feature, an IP network address, network prefix, DHCP start IP address, and DHCP end IP address must be provided in the Accelerated Concepts configuration server for that particular 6200-FX or group of 6200-FXs. An online ipcalc tool can be utilized to help calculate the necessary values. The Accelerated Concepts configuration parameters associated with these values are:

- DRN (DHCP network IP address)
- DRP (DHCP network prefix)
- DRS (DHCP IP range start)
- DRE (DHCP IP range end)

For example, a 6200-FX with the following settings will have a network address of 192.168.10.0/24 and will assign IP addresses from 192.168.10.1 through 192.168.10.254 to the DHCP clients connected to the Ethernet Network Hub:

- GIP=192.168.10.1
- DRN = 192.168.10.0
- DRP = 24
- DRS = 192.168.10.1
- DRE = 192.168.10.254

## Required Network Access for 6200-FX General Connectivity

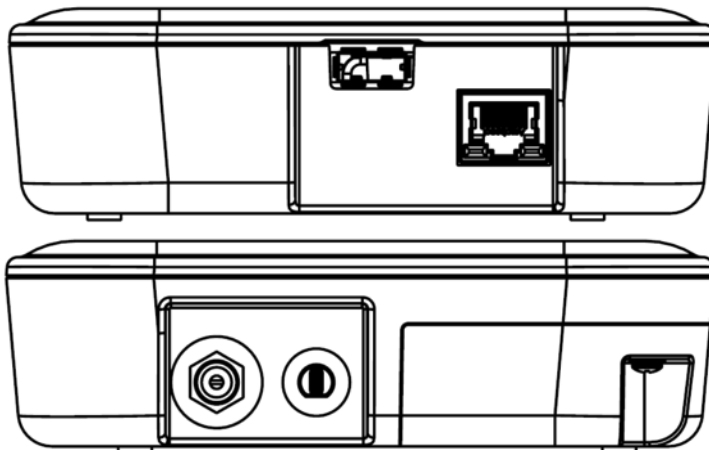
The following IP addresses or domains need to be available to the 6200-FX through its WAN cellular connection in order for the device to function properly and provide a plug-n-play connection.

IP Address	Ports Needed	Domain Name (details)
108.166.125.69	123	Time1.accnscom (time server)
71.100.234.61	123	time2.accns.com (backup time server)
50.28.67.96	123	(backup time server)
108.33.27.70	80/443/10443/11443	configuration.accns.com (Accelerated View server - config/firmware/certificates)
108.33.27.72	514	logs.accns.com (syslog server)
108.166.111.162	514	syslog.accns.com (backup syslog server)
184.106.213.137	500/4500	remote.accns.com (IPSEC remote control server)
8.8.8.8		(ping testing - although this can be substituted)

# 6200-FX Specifications

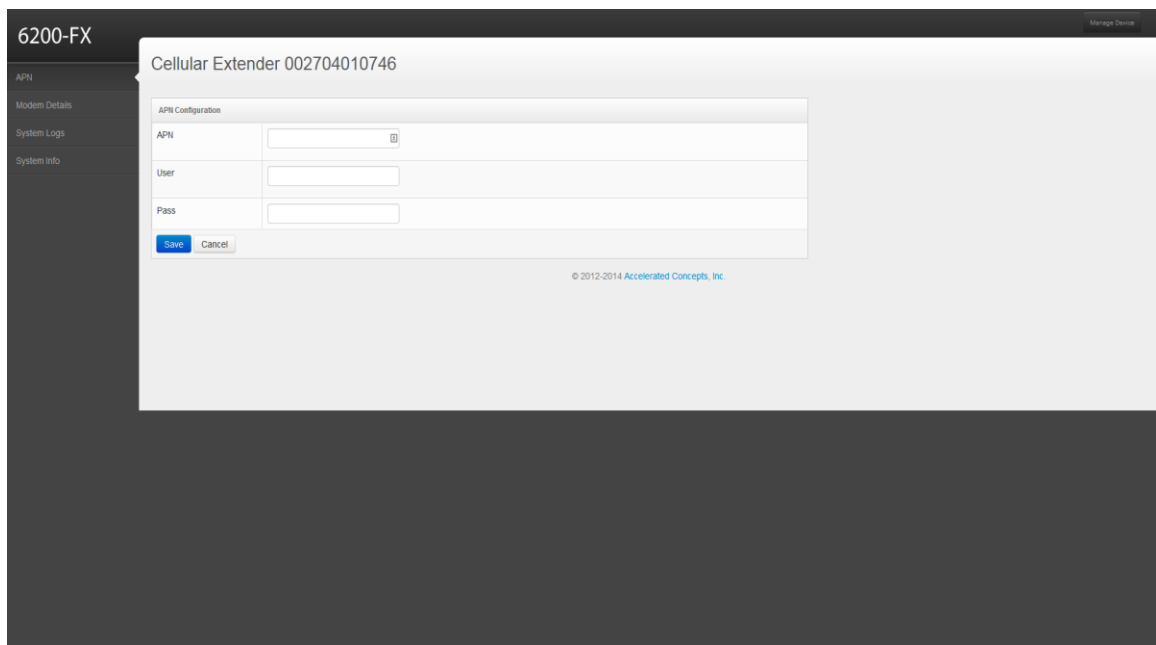
## Technical Specifications

Ethernet:	1 Ethernet port 10/100 BASE-T (RJ-45)
Cellular USB Modem ports:	USB 2.0 1 Internal; 1 External. Theoretical speed up to 480mbps
Cellular Compatibility:	LTE, HSPA+, HSPA21, HSPA42, EVDO
Passive PoE:	Passive PoE (remote power up to 300') using the included injector cable
Power supply:	12V DC, 1.5A; 100–240 AC
LEDs:	USB Modem, Signal Strength and 2G / 3G / 4G LTE
Dimensions:	5.75 x 5.25 x 1.75 inches
Weight:	8.5 ounces
Temperature:	32°F to 122°F operating
Certifications:	FCC Part 15 Class B
Technology:	EVDO, LTE/HSPA+ modem backwards compatible to GSM/GPRS/EDGE or 1xRTT
Downlink Rates:	LTE 100 Mbps, HSPA+ 21.1 Mbps (theoretical)
Uplink Rates:	LTE 50 Mbps, HSPA+ 5.76 Mbps (theoretical)
Frequency Band:	Dependent on Radio/Geography (no limitations)



## Appendix A: Sprint

The NetGear 341U modem provided by Sprint has its own local web interface that provides additional information and features specific to the 341U modem, including the ability to update the 341U's software version, roaming settings, and usage info. To access the 341U's local interface, first navigate to the 6200-FX's local web interface at <http://192.168.210.1> (see "Local Graphical User Interface (GUI) section of this guide). Next, click on the "Modem Details" tab on the navigation bar on the left, and click the URL link in the "Admin Interface" column in the modem details.



**Figure 1: Local web interface**

6200-FX Manage Device


Cellular Extender 002704010746

Modem: NetGear 341u

Carrier:	sprint
Admin Interface:	<a href="http://192.168.1.1/">http://192.168.1.1/</a>
User:	not_used
Password:	not_used
Signal Strength:	-80
Signal %:	53
Phone Number:	
IMEI:	
IMSI:	
ESN:	
MCC:	310
MNC:	120
MEID:	
MSID:	
ICCID:	
Revision:	NTG9X15C_45.04.20.00
RSRP:	-108.000
RSRQ:	-12.000
CSQ:	16
SINR:	9.000
ECIO:	-31.500
SNR:	5.000
CNTI:	LTE
PRL:	VER:12134
CSS:	500.B.275
QCMPEP:	1
Roam:	All
Type:	sw341
MTU:	1422
QCMPEP:	1
QCMFNAI:	accelecon@sprintpcs.com

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Figure 2: Modem Details



NETGEAR 341U Manager  
[Support](#) | [About](#) | [Login](#)

- Home
- GPS
- Settings

**Status**

 3G

[Feedback](#)  
[Important Information](#)

**Sign In**

Remember me

**Data Usage**

**Billing Cycle**

**7.6 MB Data Used**  
 22 Days Remaining (next plan begins on 5/14/14 )

**Session**

Used: 0.4 MB  
 Elapsed time 19m

**Used this month:**

	Sent	Received	Combined
LTE	0.0 MB	0.0 MB	0.0 MB
3G	4.8 MB	2.8 MB	7.6 MB
<b>Total</b>	<b>4.8 MB</b>	<b>2.8 MB</b>	<b>7.6 MB</b>

Actual billed usage can be higher than estimated data usage displayed on the usage meter.

**My Account**

My number: XXXXXXXXXX

[My Sprint](#)

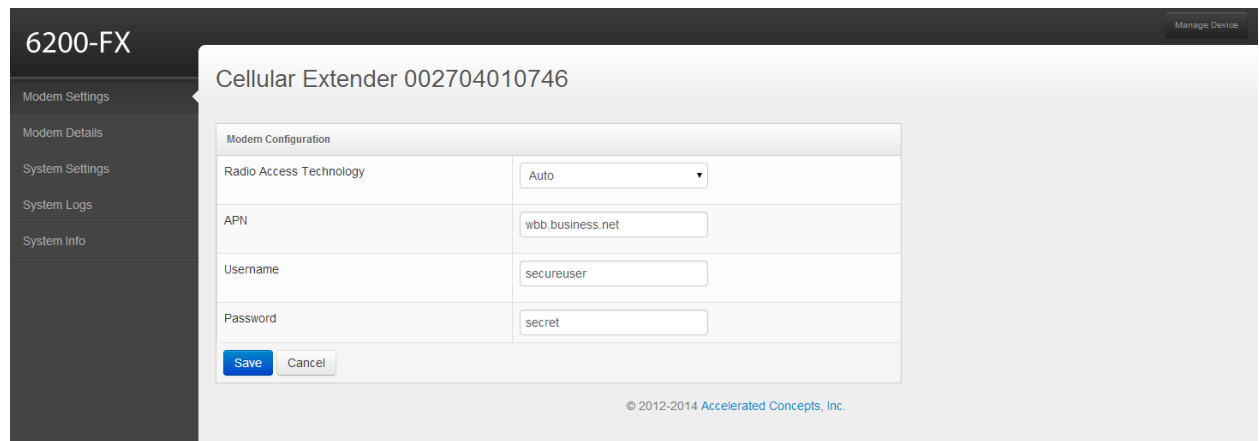
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**Figure 3: Sprint web interface**

## Appendix B: Configuring Special APN

### If you need to configure a special APN for your 6200-FX:

- Power the 6200-FX on with no USB modem, aircard, or any other device connected to the 6200-FX's internal or external USB ports.
- Connect an Ethernet cable between the 6200-FX and a laptop or PC.
- Power the 6200-FX on. Once the 6200-FX boots up and assigns an IP address to your computer, open a web browser and navigate to '192.168.210.1'
- Enter in the APN credentials required for your USB modem or aircard to connect. In the example below, the APN 'wbb.business.net' is being utilized.  
APN: wbb.business.net  
Username: secureuser  
Password: secret
- Click 'Save' to save the APN into the 6200-FX.
- Power off the 6200-FX.
- Connect the USB modem or aircard into either the internal or external port of the 6200-FX.
- Power the 6200-FX on.



**Figure 7: Special APN Panel**

Once the 6200-FX boots up, it will try to connect using the specified APN with the USB modem. Once the 6200-FX establishes a network connection (signified by the USB LED illuminating blue and 3G LED illuminating either green or blue), the 6200-FX will check its configuration on the 6200-FX portal, save any specified APN configurations, and restart once to apply any new configuration settings.

## Appendix C: Real-Time Management

Below are details for all the commands that can be sent to a 6200-FX device, along with details as to what each command does.

### Remote Control

- Check status - the 6200-FX will immediately send its current status.
- Check signal strength - the 6200-FX will send its signal strength and network info once every 10 seconds for the next 15 minutes.
- Perform Speed Test - the 6200-FX will perform a speed test and send the Upload/Download results.
- ARPing Attached Device - the 6200-FX will attempt to ARPing the client device attached to its Ethernet port.
- Send Wake-on-LAN to Attached Device - the 6200-FX will send a wake-on-LAN packet to the client device attached to its Ethernet port.
- Check Configuration - the 6200-FX will immediately pull its configuration and reboot to apply any new settings.
- Reboot - reboot the 6200-FX.

### SMS

- Set Configuration - a popup window appears where a user can enter in a configuration option or set of options to apply to the 6200-FX. Multiple config options must be separated by a comma. For example, if a user wants to set the APN of a 6200-FX to managedvpn, they would enter "modem\_apn=managedvpn".
- Configuration Reset - restore default configuration on the 6200-FX and reboot.
- Firmware Reset - restore to backup firmware image on the 6200-FX, and reboot.
- Factory Reset - restore default configuration on the 6200-FX, restore to backup firmware image, and reboot.
- Remote Control - tell the 6200-FX to bring up its remote control tunnel (useful if on low data plan, so the remote control tunnel is not always up using data).
- Reboot - reboot the 6200-FX.

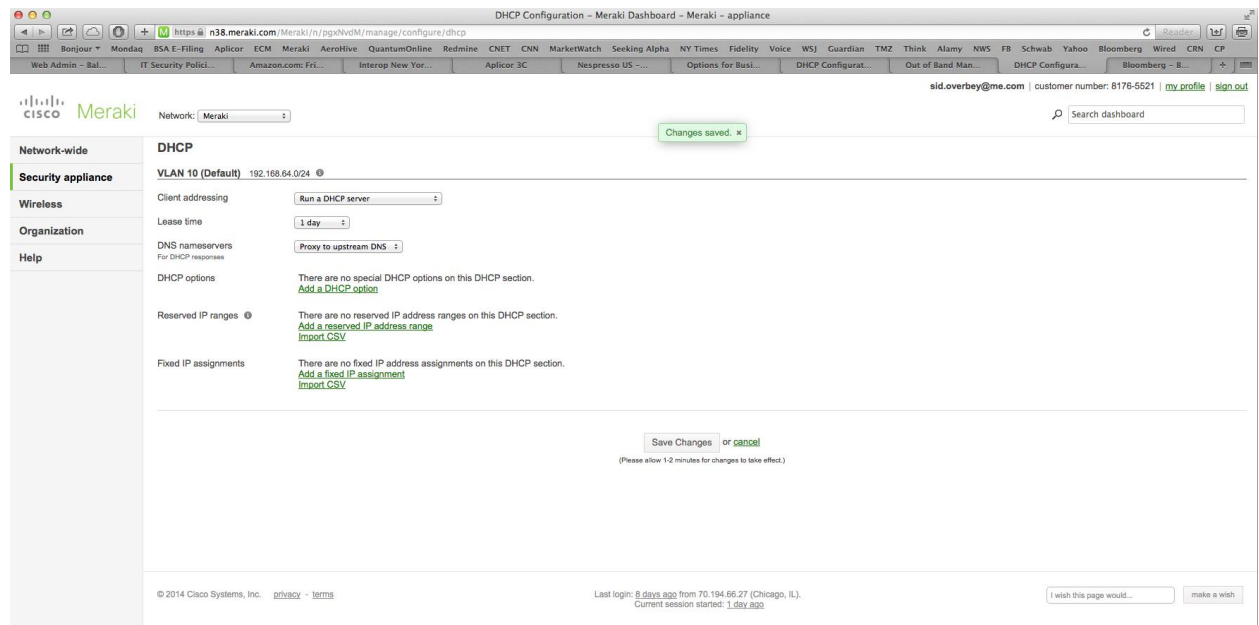
## Appendix D: Connecting a Remote Power Unit

- Power off the 6200-FX and the NP-02U RemotePower devices.
- Connect a serial-to-USB cable between the 6200-FX's open USB port and the Remote Power's serial RJ-45 port.
- Ensure that the Remote Power device has its own power source. Failure to do so may cause damage to the serial-to-USB cable.
- Power on the Remote Power device
- Power on the 6200-FX.

## Appendix E: Connecting a Meraki MX60 Router

The Meraki MX60 router should act as the DHCP server in this setup; the 6200-FX is simply the WAN connection for the MX60.

- Start by first connecting the 6200-FX to the WAN/Internet port of the Meraki MX60.
- Wait for the MX60 device to verify that it has a valid Internet connection. This is reflected by the WAN Connectivity LED on the MX60 (the light just to the right of the power LED) illuminating solid green.
- Navigate to the web UI of the MX60, which can be done either through the Internet WAN access, or by connecting a laptop/PC to one of the MX60's LAN ports.
- Ensure that the "Client addressing" configuration option is set to "Run a DHCP server". This enables the DHCP on the MX60. Refer to the first screenshot below to see where this configuration option is located.
- If a bridge or switch device is being utilized in the LAN network of the MX60 (ex. a wireless bridge device is connected to the MX60's LAN port to provide wireless connectivity), then ensure that the "Client tracking" configuration option under "Addressing and VLANs" is set to "Track clients by IP address". Refer to the second screenshot below to see where this configuration option is located.



**Screen Shot 1**

Addressing & VLANs - Meraki Dashboard - Meraki - appliance

https://n38.meraki.com/Meraki/n/pgxNvMjmanage/configure/router\_settings

sid.overbey@me.com | customer number: 8176-6521 | [my profile](#) | [sign out](#)

Network: Meraki

**Addressing & VLANs**

Mode

- Passthrough or VPN concentrator  
The appliance acts as a Layer 2 bridge, and does not modify client traffic. Configure VPN to enable communication with remote peers. Only one WAN uplink can be used in this mode.
- Network Address Translation (NAT)  
Client traffic to the Internet is modified so that it appears to have the appliance as its source. Configure DHCP on the [DHCP settings](#) page.

Client tracking

- Track clients by MAC address  
Use this setting if client devices are on the same subnet and Ethernet broadcast domain as the appliance. This is the default setting.
- Track clients by IP address  
Use this setting if there is a layer-3 router or switch between local clients and the appliance. Some tools, such as client connectivity alerts and client ping, are based on ARP and will not be available.

VLANs

Enabled

Routes

Subnet	Type	Details	Status	Historical
192.168.64.0/24	Local VLAN	Name: Default MX IP: 192.168.64.1 VLAN: 10	<span style="color: green;">●</span>	-

[Add a Local VLAN](#) [Add a Static Route](#)

Per-port VLAN configuration

Port	Enabled?	Type	VLAN	Allowed VLANs
<input type="checkbox"/> LAN 1	enabled	trunk	Native: VLAN 10 (Default)	All
<input type="checkbox"/> LAN 2	enabled	trunk	Native: VLAN 10 (Default)	All
<input type="checkbox"/> LAN 3	enabled	trunk	Native: VLAN 10 (Default)	All
<input type="checkbox"/> LAN 4	enabled	trunk	Native: VLAN 10 (Default)	All

[Edit](#)

**Dynamic DNS**

Automatic registration: disabled

Dynamic DNS updates a DNS record each time the public IP address of the appliance changes.

[Save Changes](#) or [cancel](#)

Screen Shot 2

# Support

## Technical Support

If there are any problems installing any of our products and you require technical assistance, please call or email our help desk.

- [support@accelecon.com](mailto:support@accelecon.com)
- +1 (813) 699-3110
- Support hours are 9:00am to 5:00pm GMT – 5



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