

# Verizon Modems Up

Replaced 4G modem with another 3G. So two-3G modems are running at top of tower. 4G would not stay connected with 3G signal. [crying]

Gordon, June 13

On June 11th we took the 4G back to Tuscaloosa and tested it with VZ Access manager on Chris' macbook. I worked well, making an LTE (4G) connection and staying up. As I remember download/upload speeds (measured at dsreports.com) were around 2.5 Mbit/sec.

On Jun 12 we took the 4G back to the tower. It would only connect for a couple of minutes at 3G speeds (EVDO-a1) and then drop out. This was with and without the 3G modem connected. Also, I never have seen the 4G modem make a LTE connection. So it appears only 3G service is available in this area. With the external antenna at the top of the tower we have good signal, with an RSSI of about -63 dBm.

I tried settings on the cradlepoint to limit the 4G to 3G speeds only, and to 3G or lower, but it still did not stay connected.

Replaced the 4G modem with a 3G and things are working well. Both 3Gs are connected at 3G speeds (EVDO), and have stayed connected for 23 hours. load-balancing=spillover is enabled.

Attached are the info pages shown from Status -> Internet Connections, after pointing a browser at 192.168.0.5. The 3G that has been on the tower since the beginning has phone number 303 241 0359, unique identifier d163a26c. The new 3G modem is phone number 303 241 0137, unique id 76f22d5e.

Internet Connections :: CBR400 - Mozilla Firefox

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192.168.0.5/admin/?v=4.3.0-8401-cbr400#WanConnections

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**Device Information: Novatel Wireless CDMA**

Property	Value
<b>Diagnostics</b>	
Manufacturer	Novatel Wireless Inc.
Product	Novatel Wireless CDMA
Model	MC760 VERIZON
Modem Firmware Version	Q6085BDRAGONFLY_V139 [Jul 02 2009 18:00:00]
ESN/IMEI	5B4F86EA
Mobile Directory Number	3032410359
Home Carrier	verizon
Registered Carrier	verizon
Carrier Status	UP
Service Display	EVDO
RSSI	-73 dBm
PRL Version	53115
Network Address Identifier (NAI)	3032410359@vzw3g.com
Profile	0 Enabled
Home Address	0.0.0.0
Primary Home Agent	255.255.255.255
Secondary Home Agent	255.255.255.255
MN-AAA SPI	2
MN-HA SPI	300
MN-AAA SS	Set
MN-HA SS	Set
Reverse Tunneling	1
MSID	3038178772
<b>General Information</b>	
Unique Identifier	d163a26c
Port	usb1
Model	MC760 VERIZON
Type	modem
<b>IP Information</b>	
DNS Servers	198.224.181.135,198.224.178.135
IP Address	75.231.141.174
Gateway	66.174.175.132
MTU	1500
<b>Statistics</b>	
Incoming Bytes	17381057
Outgoing Bytes	2210673
Connection Uptime	23:36:57

Information about how the modem is communicating with its carrier. For a WIMAX modem, the CINR and RSSI values are important as they show how strong the signal is and that has significant effects on how much data the router can download or send. You can place the router in different locations to see where you get better signal. You can also see a LED display of the current signal strength. Pressing the router's Signal Strength button will toggle the LED display on and off.

**Product Support Help**

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<b>Diagnostics</b>	
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Product	Novatel Wireless CDMA
Model	MC760 VERIZON
Modem Firmware Version	Q6085BDragonFLY_V139 [Jul 02 2009 18:00:00]
ESN/IMEI	5B4F88E9
Mobile Directory Number	3032410137
Home Carrier	verizon
Registered Carrier	verizon
Carrier Status	UP
Service Display	EVDO
RSSI	-73 dBm
PRL Version	53179
Network Address Identifier (NAI)	3032410137@vzw3g.com
Profile	0 Enabled
Home Address	0.0.0.0
Primary Home Agent	255.255.255.255
Secondary Home Agent	255.255.255.255
MN-AAA SPI	2
MN-HA SPI	300
MN-AAA SS	Set
MN-HA SS	Set
Reverse Tunneling	1
MSID	3038178626
<b>General Information</b>	
Unique Identifier	76f22d5e
Port	usb1
Model	MC760 VERIZON
Type	modem
<b>IP Information</b>	
DNS Servers	198.224.181.135,198.224.178.135
IP Address	75.204.250.229
Gateway	66.174.175.132
MTU	1500
<b>Statistics</b>	
Incoming Bytes	479554654
Outgoing Bytes	275354247
Connection Uptime	23:37:24

information about how the modem is communicating with its carrier. For a WiMAX modem, the CINR and RSSI values are important as they show how strong the signal is and that has significant effects on how much data the router can download or send. You can place the router in different locations to see where you get better signal. You can also see a LED display of the current signal strength. Pressing the router's Signal Strength button will toggle the LED display on and off.

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