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Connect monitor to Aeroqual Cloud using supplied MOXA modem

Learn how to set up the cellular modem that comes with your monitor so multiple users can view data using the web-based software, Aeroqual Cloud.

Written By: Tanya Taylor



INTRODUCTION

Use this method of communication to give users remote access to all your monitors and allow Aeroqual to provide remote technical support. It is commonly used by data analysts who need to download data but don't need to visit the installation site.

Note: The data plan you choose depends on a couple of factors. For some months, the usage may be higher due to software upgrades. Also, signal strength can affect the reliability of data transmission; poor signal strength can mean lost pockets and the entire data stream needs to be resent. We suggest starting on a 1GB per month plan and assess after 3 months to see if it can be reduced.

PARTS:

• MOXA G3111 HSPA modem (1)

Step 1 — The modem



- To enable remote connection, your organisation might have purchased the MOXA G3111 HSPA at the time it ordered your monitor. If so, Aeroqual ships the monitor with the cellular modem already installed .
- If you aren't using a MOXA modem supplied by Aeroqual because you already have an existing/older MOXA modem, you must <u>upload the</u> <u>correct firmware and configuration</u> <u>files</u> before continuing with this procedure.

Step 2 — Remove modem



- Remove the modem from your monitor.
- (i) The modem is either underneath your monitor's ePC or to the right of it. Its position and orientation depend on which monitor you have.

Step 3 — Insert SIM



- Buy a standard SIM card from a local telecommunications company.
 - (i) The SIM card must be standard size with dynamic IP. You don't need a SIM card with fixed IP.
- Insert the SIM card into a slot underneath the modem.

Step 4 — Open modem interface

← → C 🗋 192.168.127.254			Local Area Connection Properties		
MOXA	OnCell S Gmail S Googlesi D P tests	🗋 Tests 👪 RS 🥁 Value Plastics 🥥 POs 🥥 Parts 🥥 BOMs 🝵	Networking Sharing	General	es 👘
Main Menu Overview Basic Settings Network Settings Serial Port Settings System Management System Monitoring Save Configuration R Restart	Welcome to OnCell G3111 Model name OnCell G3111 Serial No. Firmware version 1.5 Build 13091318		Control datage Reatek PCIe GBE Family Controller This connection uses the following items:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. © Obtain an IP address automatically	
	WAN IP address 102.168.127.254 Ethernet MAC address 00:90:E8:48:48:73 Ethernet LAN speed 10 Cellular signal Revel 0 Cellular mode N/A Cellular INET 351535053853628 Up time 0 Serial port 1 115200,None,8,1,R5-232	102.168.127.254 00:90:E8:48:4E:73 107.VUlak 0 N/A 351535053853628	Client for Microsoft Networks Kaspersky Anti-Virus NDIS 6 Filter Gos Packet Scheduler File and Printer Sharing for Microsoft Ne Internet Protocol Version 6 (TCP/IPv6)	Use the following IP address: IP address: 192 . : Subnet mask: 255 . 2 Default gateway: .	168 . 127 . 100 255 . 255 . 0
		0 days 03h:39m:06s 115200,None,8,1,RS-232	Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I Link-Layer Topology Discovery Respond Install Uninstall Description Transmission Control Protocol/Internet Protocol	Obtain DNS server address automatically Oute the following DNS server addresses: Preferred DNS server: Alternate DNS server:	1 K
			across diverse interconnected networks.	Validate settings upon exit	Advanced OK Cance

- Connect the modem to your PC using an ethernet cable.
- Open up your internet browser and enter 192.168.127.254 in the address bar. This is the local IP of the modem.
- If the MOXA configuration interface doesn't appear, make sure the IP address is set to 192.168.127.XXX.
- On the overview screen, check the Firmware version (it should be 1.5) and Cellular signal strength (it should be 0).

Step 5 — Configure APN

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	Username Password APN Connection control Connection interval Ping remote host	Internet Always On/Nene 5 (5 - 65535 min)		
	Submit			Apr 1 05.737

 Go to the GSM GPRS Settings screen (Main Menu > Network Settings) and enter the APN for your cellular provider.

(i) You can find a list of cellular providers APNs at <u>www.APNChanger.org</u>.

- Click **Submit**.
- The modem re-starts and after a few minutes the **GSM/GPRS** LED on the modem cover turns orange and the **Ready** LED turns green. In addition, the **Cellular signal strength** value on the overview screen changes to **2**.

↑ If you don't see the LEDs, it's likely the APN is incorrect.

Step 6 — Test connection



- To test the connection, text the following message from your mobile phone to the number of the SIM card you purchased:
 @aqlmoxa@restart.
- The modem should restart on its own and send you a text reply to confirm a successful connection.

Step 7 — Connect modem



- Disconnect the modem from your PC and put the modem back into the monitor.
 - (i) The modem goes underneath your monitor's ePC or to the right of it. Its position and orientation depend on which monitor you have.
- Connect the MOXA modem to the ePC using an ethernet cable.

Step 8 — Log in to Cloud



- Open up a browser tab and go to <u>https://cloud.aeroqual.com</u>.
- Log in with your Aeroqual Cloud user credentials.
- If you don't have a login, contact <u>Technical Support</u>.

Step 9 — Find your monitor



- Click Select and use the navigation pane to find your monitor.
- It should display as **Normal operation**, indicating the monitor is on and connected to the internet.
- (i) It might take several minutes for your monitor to connect to the internet, so be patient.

For further support, contact <u>Technical Support</u>.