



QL500/BM2x0 with Matrix Family

ETHERNET CONFIGURATION

For Matrix Family readers* having software 5.60 or later, connected to a QL500 (or a BM2x0 module inside a CBX connection box), you can setup the Ethernet communication with programming barcodes.

* except Matrix 200/210™ UHD models.



**Ethernet TCP/IP enabled
DHCP enabled**

Using the X-PRESS™ interface setup functions described in the Quick Reference Guide, correctly position the reader and read one of these barcodes with the **Learn** function.

The reader can now communicate using Ethernet TCP/IP.

For reader configuration through VisiSet™ using Ethernet TCP/IP, follow one of the procedures in the next paragraph.



**Ethernet TCP/IP enabled
DHCP disabled
(uses static IP Address parameters)**

The Factory Default static IP address parameter settings for all Matrix Family readers are:

- IP Address = 172.24.24.1
- Subnet Mask = 255.255.0.0
- Gateway Address = 172.24.255.254



NOTE

For Matrix 210/400/410™ Ethernet models, Ethernet TCP/IP is enabled with the above static IP address parameter settings by default. Therefore, it is not necessary to read the **DHCP disabled** programming barcode for these models.

IP ADDRESS ALIGNMENT FOR CONFIGURATION

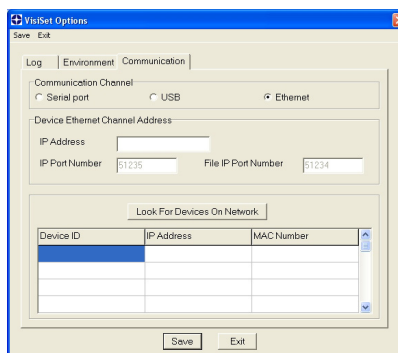
In order to connect a Matrix reader to VisiSet™ using Ethernet TCP/IP, the Ethernet IP Addressing parameters must be aligned between VisiSet™ and the reader.

In order to find the reader using the VisiSet™ "Look For Devices On Network" tool, the reader and VisiSet™ must be on the same network (not through a sub-network or router).

The following procedures can be used:

DHCP Enabled

1. Read the **Ethernet TCP/IP enabled DHCP enabled** barcode as described in the first panel.
2. In VisiSet select the Ethernet Communication Channel in the Options> Communication window. Then press the **Look For Devices On Network** button. The Matrix reader will appear with its assigned IP Address in the list. If more than one device is found, verify the correct device by its MAC Address written on the product label.



3. Input the IP address from the list in the **IP Address** field of the Device Ethernet Channel Address section of the VisiSet™ Options> Communication window (or double-click on the device in the list). The IP port number is 51235. Then click **Save**.
4. Perform a Connect (to device) from VisiSet™.

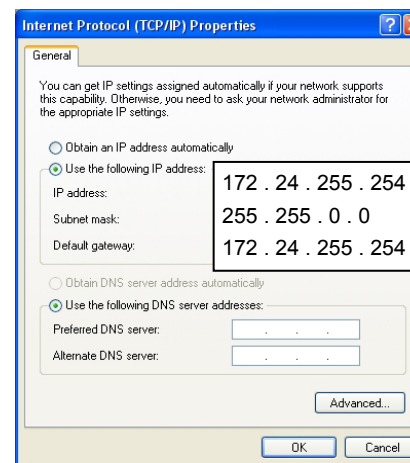


NOTE

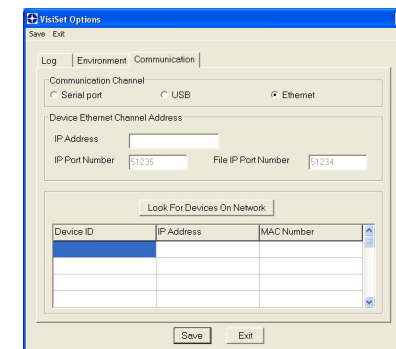
Devices working in DHCP may be assigned different IP addresses at each powerup, therefore steps 2 - 4 of the above procedure may need to be repeated at successive connections between VisiSet™ and the reader.

Static IP Addressing (DHCP disabled)

1. Read the **Ethernet TCP/IP enabled DHCP disabled** barcode as described in the first panel.
2. Before changing the Ethernet network settings on the PC running VisiSet™, close any open applications which use network resources (i.e. Outlook, or Web browser).
3. On the Configuration PC, from the Control Panel> Network Connections, right-click on the LAN connection icon and open the properties window.
4. Select the Internet Protocol (TCP/IP) item and open the properties window.
5. Set the IP Address fields as follows and click OK to save.



6. In VisiSet select the Ethernet Communication Channel in the Options> Communication window. Then press the **Look For Devices On Network** button. The Matrix reader will appear with its default IP Address in the list.



7. Input the IP address from the list in the **IP Address** field of the Device Ethernet Channel Address section of the VisiSet™ Options> Communication window (or double-click on the device in the list). The IP port number is 51235. Then click **Save**.
8. Perform a Connect (to device) from VisiSet™.

QL500/BM2X0 FEATURES

Starting from software release 2.02.01 the QL500 and BM2x0 also support:

- Ethernet IP (explicit messaging)
- Modbus TCP
- Backup & Restore

When Ethernet TCP/IP is enabled, the QL500 or BM2x0 software release is shown in the VisiSet™ Welcome menu.

For more information on these features see the reader's Help On Line.

The Matrix Family reader must have software release 6.10 or later.



QL500/BM2x0 with DS2x00N-DS4800 Family

ETHERNET CONFIGURATION

For any DS2x00N-DS4800 Family scanner having software package 005 or later, connected to a QL500 (or a BM2x0 module inside a CBX connection box), you can setup the Ethernet communication with programming barcodes.



**Ethernet TCP/IP enabled
DHCP enabled**

Using the X-PRESS™ interface setup functions described in the Quick Reference Guide, correctly position the scanner and read one of these barcodes with the AutoLearn function.

The scanner can now communicate using Ethernet TCP/IP.

For scanner configuration through Genius™ using Ethernet TCP/IP, follow one of the procedures in the next paragraph.



**Ethernet TCP/IP enabled
DHCP disabled
(uses static IP Address parameters)**

The Factory Default static IP address parameter settings for all DS2x00N-DS4800 Family scanners are:

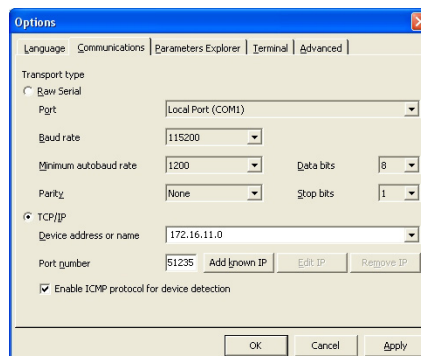
- IP Address = 172.16.11.0
- Subnet Mask = 255.255.0.0
- Gateway Address = 172.16.0.2

IP ADDRESS ALIGNMENT FOR CONFIGURATION

In order to connect a scanner to Genius™ using Ethernet TCP/IP, the Ethernet IP Addressing parameters must be aligned between Genius™ and the scanner. The following procedures can be used:

DHCP Enabled

1. Read the **Ethernet TCP/IP enabled DHCP enabled** barcode as described in the first panel.
2. Launch the Finder program on the Genius™ CD-ROM in *..Doc\Software Utilities\QL500-BM2x0 IP Finder.zip* to determine the IP address assigned to the scanner.
3. Set the Genius™ Tools> Options> Communications window to TCP/IP and in the Device address or name field, input the IP address returned by the finder program. The port number is 51235. Then click **OK**.



4. Perform a Device>Get (configuration) from Genius™.

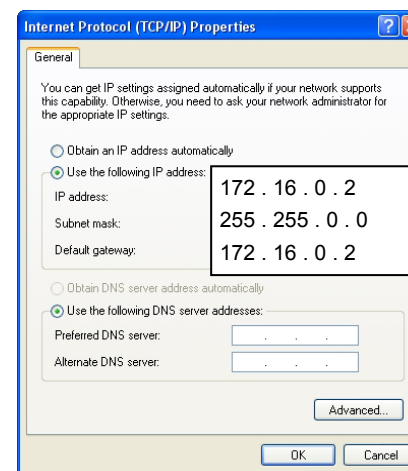


NOTE

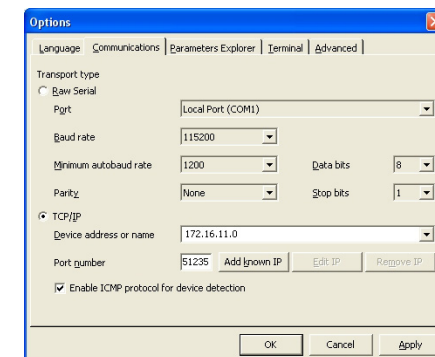
Devices working in DHCP may be assigned different IP addresses at each powerup, therefore steps 2 - 4 of the above procedure may need to be repeated at successive connections between Genius™ and the scanner.

Static IP Addressing (DHCP disabled)

1. Read the **Ethernet TCP/IP enabled DHCP disabled** barcode as described in the first panel.
2. Before changing the Ethernet network settings on the PC running Genius™, close any open applications which use network resources (i.e. Outlook, or Web browser).
3. On the Configuration PC, from the Control Panel>Network Connections, right-click on the LAN connection icon and open the properties window.
4. Select the Internet Protocol (TCP/IP) item and open the properties window.
5. Set the IP Address fields as follows and click **OK** to save.



6. Set the Genius™ Tools> Options> Communications window to TCP/IP and in the Device address or name field, input the scanner Factory Default address. The port number is 51235. Then click **OK**.



7. Perform a Device> Get (configuration) from Genius™.

QL500/BM2X0 FEATURES

Starting from software release 2.02.01 the QL500 and BM2x0 also support:

- Ethernet IP (explicit messaging)
- Modbus TCP
- Backup & Restore

When Ethernet TCP/IP is enabled, the QL500 or BM2x0 software release is shown in the read-only parameter in Genius™ Data Communication Settings> CBX Gateway> Line Parameters> **PrgName**.

For more information on these features see the reader's Help On Line.

The Scanner Family must have software package 006 or later.