



BE PAYMENT READY

Moneris Terminals

Ethernet Readiness Checklist





BE PAYMENT READY

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Record your Moneris merchant ID here:

Before you begin

Before you install your Moneris terminal(s), follow these steps to ensure that your Ethernet network, including any Ethernet cabling, modems, routers, etc. at your location(s), is ready to allow your Moneris terminal(s) to communicate with Moneris:

1. Confirm that you are using a Moneris terminal that supports Ethernet:



2. Ensure that the connections between your Moneris terminal(s) and your modem/router are wired.

Important! A wired connection provides increased data security and reliability. Moneris Ethernet-enabled terminals do not support wireless connectivity.

If you are using optional dial backup:

Note: If you are using the Moneris Desk/5000 or the V400c, disregard any references to dial backup. These terminals use Ethernet only and do not support dial.

- Due to data security issues, Moneris terminals using dial backup must use a true analog phone line that connects to a public-switched telephone network.

Important! Do not use analog telephone adaptors (ATAs) and digital phone service over IP communications (e.g., VoIP) as an alternative to dial backup.

3. Determine which option for connecting your Moneris terminal(s) to your modem is best for you:

Option A: Direct-to-modem setup

Consider this setup if you need to connect only one Moneris terminal directly to your modem and this terminal is the only piece of equipment that will connect to the modem (see page 3).

Option B: Router-to-modem setup

Consider this setup if you need to connect more than one Moneris terminal to your modem or if two or more pieces of equipment (for example, a PC and a Moneris terminal) will use the same modem / Internet service (see page 3).

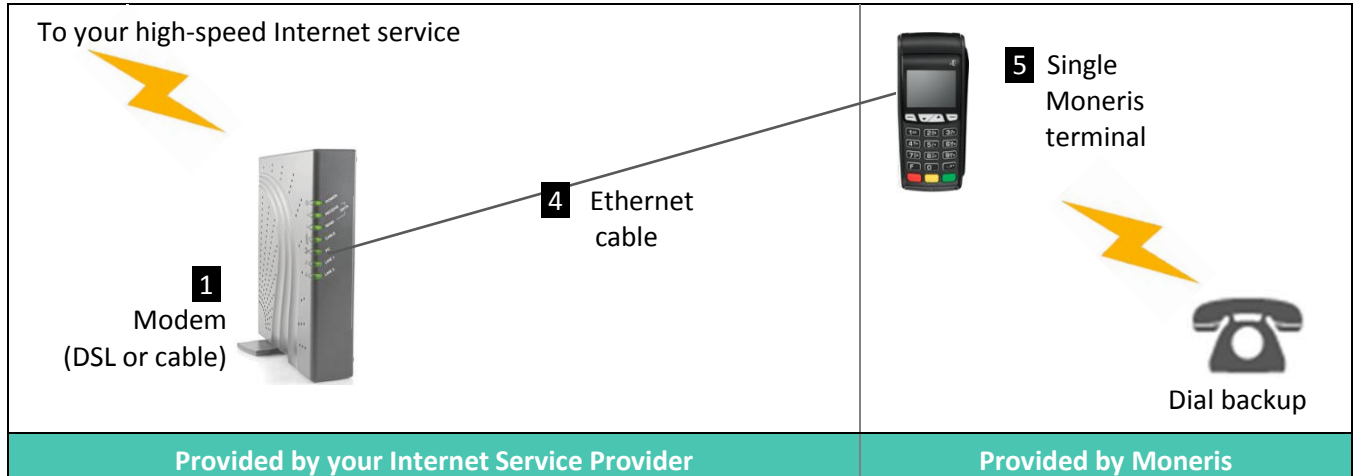
Note: *Some high-speed Internet service providers supply a modem-router combo device. If you have two or more pieces of equipment (e.g., a PC and a Moneris terminal) using the Internet service, a separate router and modem cable are still required.*

4. Fill out *The Checklist* starting with *Part 1: Hardware and wiring placement* on page 4 to help you ensure that your Ethernet network is properly installed and configured to allow your Moneris terminal(s) to communicate with Moneris.

Option A: Direct-to-modem setup

The Moneris terminal (5) is connected via Ethernet cable (4) directly to the modem (1).

Important! The connections between the Moneris terminal (5) and the modem (1) must be wired.

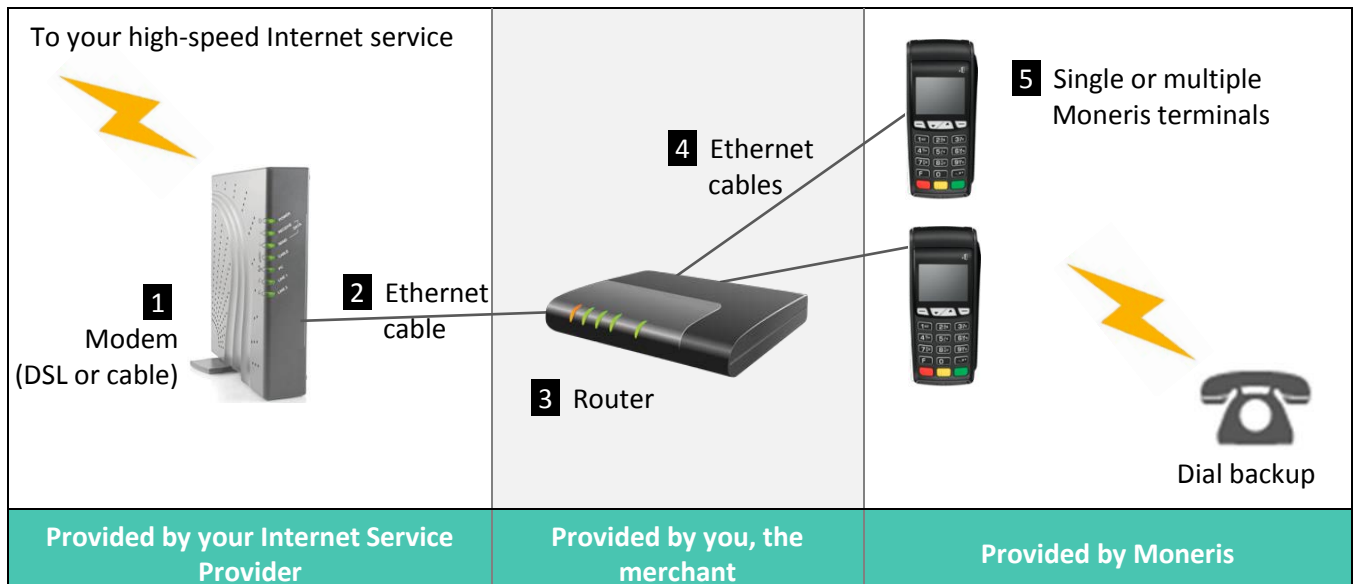


Note: The Moneris iCT250 is used in this diagram as an example. This diagram is applicable to all of the terminals listed on page 1.

Option B: Router-to-modem setup

One or more Moneris terminals (5) are connected to a router (3) via Ethernet cables (4). The router (3) is then connected to the modem (1) via an Ethernet cable (2).

Important! The connections between the Moneris terminals (5) and the router (3), as well as the connection between the router (3) and the modem (1), must be wired.



Note: The Moneris iCT250 is used in this diagram as an example. This diagram is applicable to all of the terminals listed on page 1.

The Checklist

Part 1: Hardware and wiring placement

Complete the following questions prior to installing your Moneris terminal(s).

Note: These questions correspond to the diagrams on page 3 of this guide.

QUESTION	ANSWER
<p>1. Do you have high-speed Internet service installed in your location?</p> <ul style="list-style-type: none"> If YES, be sure to install filters on all jacks (except the one used by the modem) even if the jacks are not used. Security systems can affect the reliability of DSL Internet service if filters are not used. If NO, contact your local phone, cable or other high-speed Internet service provider (ISP). 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>2. Will the 10-foot (3.04-metre) long Ethernet cable provided with your Moneris terminal reach the modem (in Option A) or the router (in Option B) from the location where your terminal will be used?</p> <ul style="list-style-type: none"> If you have more than one Moneris terminal (Option B), check the Ethernet cable (4) for each location where a terminal will be used. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<ul style="list-style-type: none"> If YES, go to question 3. If NO, purchase a longer Ethernet cable from your local computer retailer. 	
<p>3. Is the Internet accessible from the modem (in Option A) or router (in Option B)?</p> <ul style="list-style-type: none"> You must test your Ethernet service before installing your Moneris terminal. <ul style="list-style-type: none"> Connect an Ethernet-enabled laptop or PC to the modem or the router and confirm that the Internet is accessible (e.g., visit a website or send an e-mail). OR If you don't have a laptop or PC, contact your ISP to confirm that the Ethernet service has been activated. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<ul style="list-style-type: none"> If YES, go to question 4. If NO, contact your high-speed Internet service provider (ISP) for assistance. 	
<p>4. Will the power cable provided with your Moneris terminal reach an active power outlet from the location where your terminal will be used?</p> <ul style="list-style-type: none"> Desk/5000 11.5' (3.5m) iWL220: 10' (3.04m) iCT250: 10' (3.04m) V400c: 6' (1.82m) VX 520: 6' (1.82m) VX 820 Duet: 8' (2.43m) If you have more than one Moneris terminal (Option B), check the power cable for each location where a terminal will be used. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<ul style="list-style-type: none"> If YES, go to question 5. If NO, use a power bar or contact an electrician to install a new power outlet. 	

Part 1: Hardware and wiring placement (continued)

QUESTION	ANSWER
<p>5. Does your modem or router support 100BaseT (100Mbps), full-duplex communication?</p> <ul style="list-style-type: none"> If YES, and you have a Moneris: <ul style="list-style-type: none"> iWL220, iCT250, VX 820 Duet, or VX 520, go to question 6. Desk/5000 or V400c, go to question 7. If NO, your Moneris terminal will use auto-negotiation to work with a modem or router configured for any combination of 10BaseT or 100BaseT speeds and half or full-duplex communication. However, Moneris strongly recommends that you use a modem or router that supports 100BaseT, full-duplex communication. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>6. Do you have a dial wall jack installed to allow processing over dial backup?</p> <p><i>Note: This question does not apply to the Desk/5000 or the V400c since they do not support dial.</i></p> <p><i>Note: To maintain uninterrupted processing during Internet service interruptions, use the Dial Backup feature. Your Moneris terminal will continue to process transactions using the dial service until Internet service is restored.</i></p>	<input type="checkbox"/> YES <input type="checkbox"/> NO
<ul style="list-style-type: none"> If YES, check that the dial cable provided with the Moneris terminal reaches the dial wall jack from the location where the terminal will be used. <ul style="list-style-type: none"> iWL220/iCT250/VX 820 Duet/VX 520: 6' (1.8m) If NO, but you wish to have dial backup available for your Moneris terminals, contact your phone service provider to request the installation of additional dial wall jacks. 	

If you answered **YES** to questions 1 through 6 and:

- Your Ethernet network setup includes a separate router (Option B), please continue to *Part 2: Additional steps for routers* on page 6.
- Your Ethernet network setup does not include a separate router, CONGRATULATIONS. You are ready to install your Moneris terminal.

Part 2: Additional steps for routers

If you are using **Option B: Router-to-modem** setup, complete the following questions:

QUESTION	ANSWER
<p>7. Is the Ethernet cable (2) between your modem (1) and the router (3) connected?</p> <ul style="list-style-type: none"> If YES, go to question 8. If NO, connect the Ethernet cable provided by your Internet service provider along with the modem. If you don't have an Ethernet cable, purchase one from a local computer retailer. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>8. Is the router (3) configured for your Internet service?</p> <ul style="list-style-type: none"> If YES, go to question 9. If NO, you will need to have the router configured for your Internet service. <ul style="list-style-type: none"> For help configuring your router, ask your local computer retailer or search for Computer Networking in your area for a provider. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>a. Do you have a firewall in place?</p> <ul style="list-style-type: none"> If YES, go to question 8b. If NO, go to question 9. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>b. Are there any firewall restrictions on traffic from your LAN to the Internet?</p> <ul style="list-style-type: none"> If YES, to allow messages from the Moneris terminal to pass through your router, you must: <ul style="list-style-type: none"> add ALL of the Moneris URLs listed on page 7 to the firewall configuration on your router open the following port for all connections: TCP Port for SSL = 443 <p><i>Note: All traffic is initiated by the Moneris terminal so you will not be required to open this port for in-bound traffic.</i></p> If NO: go to question 9 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>9. Is there an unused port on the router for each Moneris terminal that you are going to install?</p> <ul style="list-style-type: none"> If YES, go to question 10. If NO, consult your network administrator or local computer retailer for help. <ul style="list-style-type: none"> If you require more ports, additional routers can be installed. Consult your network administrator or local computer retailer for help in sourcing additional routers. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p>10. Does your network use automatic DNS?</p> <ul style="list-style-type: none"> Your network administrator or the person who configured your router will be able to tell you this. 	<input type="checkbox"/> YES <input type="checkbox"/> NO
<ul style="list-style-type: none"> If YES, proceed to question 11. If NO, record the addresses of your primary and secondary DNS: Primary DNS _____ Secondary DNS _____ 	

Continued on the next page.

QUESTION	ANSWER
<p>11. What is the IP addressing scheme on the in-store Ethernet network?</p> <ul style="list-style-type: none"> Your network administrator or the person who configured your router will be able to tell you this. 	<input type="checkbox"/> DYNAMIC <input type="checkbox"/> STATIC
<ul style="list-style-type: none"> Dynamic addressing is the default for most routers. This is the preferred addressing method. If Static IP addressing is used, please ensure that each Ethernet wall jack is properly labelled with a unique static IP address. 	

- If you answered **DYNAMIC** to question 11 and **YES** to all the other questions, then CONGRATULATIONS! You are ready to install your Moneris Ethernet-enabled terminals.
- If you answered **STATIC** to question 11 and **YES** to all the other questions, please continue to *Part 3: Additional parameters for Static IP* on page 8.

Moneris URLs for routers

If you answered **YES** to question 8.b on page 6, you will need to add **ALL** of the Moneris URLs and IP addresses listed for your network type (Public or Private) to the firewall configuration on your router to allow messages from the Moneris terminal to pass through:

Note: If you previously added **ipg.moneris.com** or **ipgpr.moneris.com** to your firewall configuration in the past, Moneris recommends removing that URL and using the URL and IP addresses in the appropriate table below.

Public Network

Public Network	URL	IP ADDRESS (SITE 1)	IP ADDRESS (SITE 2)
	ipg1.moneris.com	23.249.192.33	23.249.200.33
	ipg2.moneris.com	23.249.192.34	23.249.200.34
	ipg3.moneris.com	23.249.192.35	23.249.200.35
	rdl.moneris.com (port 2601)	23.249.195.67	23.249.203.67
	tms.moneris.com (port 1124)	23.249.192.138	23.249.200.138
	vcp.moneris.com (port 543)	74.200.8.222	69.46.115.122
	ingp.moneris.com (port 2601)	74.200.8.223	69.46.115.123

Private Network

Private Network	URL	IP ADDRESS (SITE 1)	IP ADDRESS (SITE 2)
	ipgpr1.moneris.com	23.249.207.33	23.249.206.33
	ipgpr2.moneris.com	23.249.207.34	23.249.206.34
	ipgpr3.moneris.com	23.249.207.35	23.249.206.35

Part 3: Additional parameters for Static IP

If you are using **Option B: Router-to-modem** setup AND your Ethernet network uses Static IP addressing, ensure you have the following information for each of your Moneris terminals. This information can be obtained from your network administrator or the person who configured your router:

Terminal 1	<p>Terminal's static IP Address (one unique address per terminal) _____</p> <p>Terminal's Mask ID _____</p> <p>Terminal's Gateway Address _____</p> <p>Automatic DNS (Yes/No) _____</p> <p>Terminal's Primary DNS Address _____</p> <p>Terminal's Secondary DNS Address _____</p>
Terminal 2	<p>Terminal's static IP Address (one unique address per terminal) _____</p> <p>Terminal's Mask ID _____</p> <p>Terminal's Gateway Address _____</p> <p>Automatic DNS (Yes/No) _____</p> <p>Terminal's Primary DNS Address _____</p> <p>Terminal's Secondary DNS Address _____</p>

Terminal 3

Terminal's static IP Address
(one unique address per terminal) _____

Terminal's Mask ID _____

Terminal's Gateway Address _____

Automatic DNS (Yes/No) _____

Terminal's Primary DNS Address _____

Terminal's Secondary DNS Address _____

Terminal 4

Terminal's static IP Address
(one unique address per terminal) _____

Terminal's Mask ID _____

Terminal's Gateway Address _____

Automatic DNS (Yes/No) _____

Terminal's Primary DNS Address _____

Terminal's Secondary DNS Address _____

CONGRATULATIONS! You now have all of the information that is required and you are ready to install your Moneris Ethernet-enabled POS terminals.

If you need assistance with your payment processing solution, we're here to help.

We're only one click away.

- Visit moneris.com/support to:
 - download additional copies of this guide and other resources
 - consult the **Online Operating Manual** for your terminal, available in WebHelp format, to discover all the options available and how to activate them
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