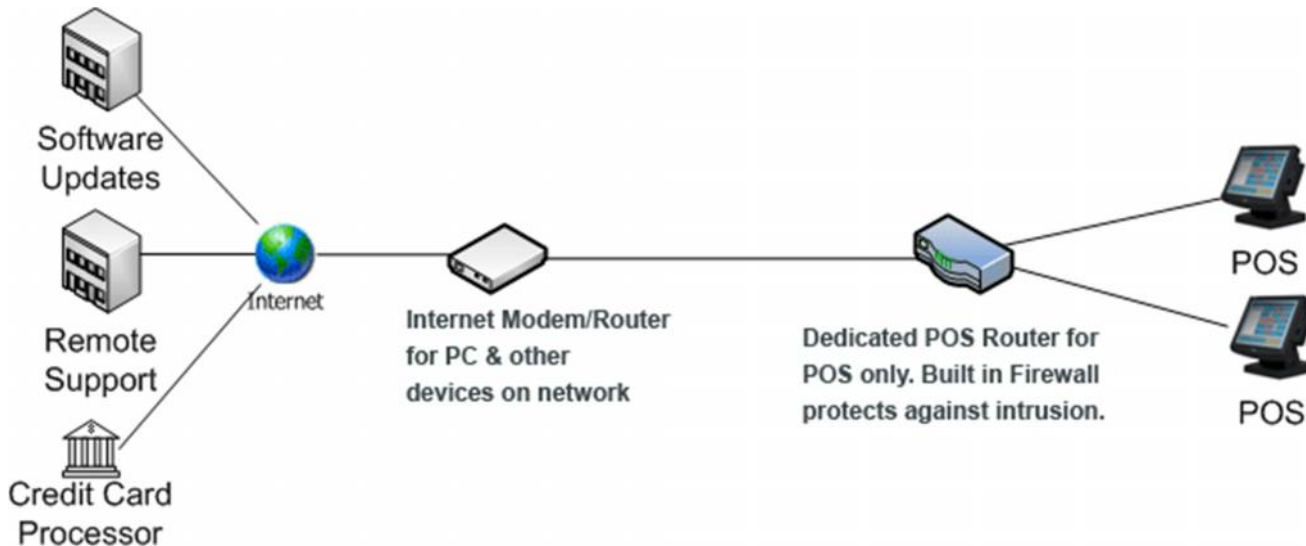


Internet Connectivity

You might be considering how to provide internet access for your point of sale, your office, other devices, and your patrons. The **most effective** networking design is to provide a **dedicated broadband** connection for your **POS system**. The POS systems should have their own router that is not shared with any other devices for security reasons.



- Point of Sale Bandwidth - The point of sale systems needs sufficient bandwidth to effectively process credit cards and be remotely supported. Other devices and users can consume sufficient bandwidth to cause credit card transactions to fail and keep us from providing support.
- Point of Sale Isolation - Your point of sale system and data need to be kept safe and secure. Your point of sale data processes patron sensitive data (credit cards) and contains data you need to run your business. The point of sale terminals and their traffic should be isolated from other equipment and internet traffic.
- No Wireless for Point of Sale - For data security your point of sale systems should always be hard wired into the network and to the internet. If wireless must be used in a certain environment, proper security and encryption must be implemented.

Networking Infrastructure

Locate an out of the way, cool, dry, secure area to use as a networking space. Your broadband modem, firewall, switches will all be placed here. All network runs will terminate here.

Temperature

The ambient temperature should be between 0 and 40°C (32 and 104°F). Keep the equipment away from heat sources such as direct sunlight, warm air exhausts, hot-air vents, and heaters.

Operating humidity

The installation location should be dry and have a maximum relative non-condensing humidity of 90%.

Ventilation

Do not restrict airflow by covering or obstructing air around electronic equipment. Airflow is essential for cooling. Keep at least 2 inches (5.08 centimeters) free on all sides for cooling. Be sure there is adequate airflow in the room or wiring closet where you intend to install this equipment.

Operating conditions

Keep the equipment at least 6 feet (1.83 m) away from nearest source of electromagnetic noise, such as a photocopy machine, florescent ballasts, and refrigerator motors.

Electrical

Electric Quality is Vital to the Reliability of your POS System.

Dirty electrical causes equipment failure. Ensure your electrical circuits are up to code. Ensure the proper polarity and grounding.

UPS (Uninterrupted Power Supply) with AVR (Auto Voltage Regulator)

Surges produced by large equipment cycling on and off affect all devices on the same circuit. It's best to isolate sensitive electronic devices by placing them on their own electrical circuits. It is highly recommended that you have the POS power on a separate circuit. UPS (uninterrupted power supply) with AVR (automatic voltage regulator) is recommended for all POS equipment. The AVR will give you protection against voltage fluctuation.