

The Network Appliance

The network appliance is a tablet PC used to run Automated Tool Room (ATR) in machines produced by CribMaster. ATR resides on a flash card inserted in the network appliance.

Network Appliance Specifications:

Processor	Intel® Atom™ Processor N270 (1.60 GHz)
Memory	1GB
External Storage	32GB Compact Flash Card
Operating System	POS Ready 2009
Microsoft .NET Framework	3.5 SP1

Network Requirements

No major modifications need to be made to a network when installing CribMaster. ATR must be able to connect to the distributor's database to upload transactions and download updates. This connection is made over the internet using **http**. The Network Appliance, the PC that runs ATR, connects using a standard Cat5 network cable. A connection to the customer's domain is not required. A broadband connection is recommended. Data transfer via dial-up is not possible.

Bandwidth

For CribMaster Online (CMOL), 55Kbps is the minimum required bandwidth. However, it is important to note that this figure is based on communications for ToolBoxes and CribMaster Admin. Other devices, such as RFID machines, may require additional bandwidth to accommodate for data uploads from their client machines.

For networked CribMaster applications, such as ATR (versions 9 and later) and Advantage, the suggested bandwidth should be T1 or greater for a shared network, 256 kbps (1/6 of a T1) for a dedicated link used by a single machine.

To test the bandwidth of your machine, go to www.speedtest.net.

Ideal speeds would be:

Download: > 1.5Mb/s

Upload: > 1.0MB/s

Ping < 75 ms

Latency

Longer latencies can cause a drag on system performance. For networked CribMaster applications, such as ATR (versions 9 and later) and Advantage, the suggested latency should be no longer than 500 ms, although acceptable performance requires 250 ms or less. For CMOL, the latency should be significantly less.

ATR Connections

ATR connects to the web service at a customizable interval. If the network is down, ATR will still be able to drive the machine. If it cannot upload transactions it will store them locally until network connectivity is restored.

Firewall Considerations

For networks that are behind a firewall, the IT Administrator at the facility will have to open port 80 to allow outbound traffic.

NOTE: Port 443 can be used for secure URLs.

Machine Power Requirements

All CribMaster machines have the same power requirements:

- U.S. - 120VAC, 60Hz, 3 Amp
- Europe - 220-240VAC, 3 Amp