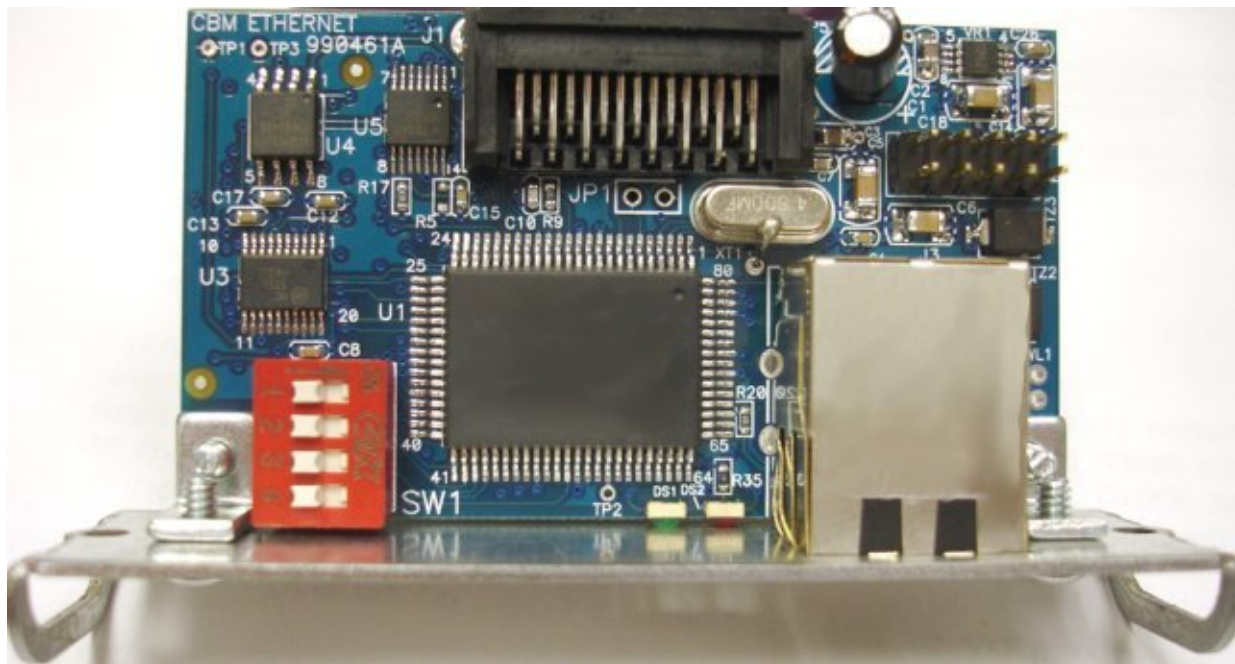


CBM ETHERNET MODULE

PRODUCT OVERVIEW



Revision A

05 October 2005

i. Revision History

<i>Revision</i>	<i>Notes</i>	<i>Author</i>	<i>Date</i>
A	Initial revision	Scott	2005/10/05

ii. Related Documents

CBM Ethernet Module Programmer's Guide (CBM America)

CBM Ethernet Utility User's Guide (CBM America)

CBM Ethernet Module Hardware Specification (CBM America).

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I. Overview

The CBM Ethernet Module is a low-cost interface designed to bring Ethernet functionality to Citizen CD-S500 and CT-S300 series POS printers.

The CBM Ethernet Module does not provide any emulation or data processing; it simply receives data from the host on an Ethernet socket and passes it to the printer via its serial interface.

Protocols supported by the CBM Ethernet Module include:

- TCP/IP
- UDP
- ARP
- ICMP
- DHCP (client)
- TFTP (server)

CBM Ethernet Module features include:

- Raw socket printing
- User configurable print port
- User configurable baud rate for serial interface (to printer)
- Remote configuration via CBM Ethernet Utility
- 2 diagnostic LEDs
- Operating system independent

II. Functionality

The CBM Ethernet Module offers Ethernet connectivity using the industry standard TCP/IP protocol. Using a standard and commonly used protocol allows for easy porting of existing POS applications to take advantage of Ethernet functionality.

The CBM Ethernet Module also features an RS232 interface to connect to the Citizen POS printer. The CBM Ethernet Module uses the standard Citizen interface connector and is the same form factor as a standard Citizen interface card, providing a seamless integration with CD-S500 and CT-S300 series POS printers. Another feature of the CBM Ethernet Module is a user configurable baud rate on the printer interface. This allows for a broader range of connectivity options.

The CBM Ethernet Utility provides remote configuration of CBM Ethernet Modules using UDP, another industry standard network protocol. CBM Ethernet Modules can be configured from anywhere on the local network using the CBM Ethernet Utility.

III. Ease of Use

Since the CBM Ethernet Module uses industry standard TCP/IP for printing, porting existing POS applications (or writing new ones) is relatively easy. Also, since TCP/IP traffic can be sent across routers, CBM Ethernet Modules can be troubleshooted from an off-site facility or even used as remote printers.

The CBM Ethernet Module's ability to be remotely configured (via the CBM Ethernet Utility) means that less time is spent deploying and configuring printers. All modules can be configured at the same time from a single location on the network.

Because the CBM Ethernet Module uses the standard CBM interface connector and is the same form factor as a standard CBM interface installation is a snap: Plug in the CBM Ethernet Module, tighten the screws, plug in the cable and everything is ready. Since the baud rate of the CBM Ethernet Module's serial interface can be configured from the CBM Ethernet Utility there's no need to adjust any switches or to go through the CBM printer's menu system to configure the baud rate.

The CBM Ethernet Module does not provide any emulation or data processing functionality. This saves time when porting POS applications to use the new Ethernet functionality since the same data format is used between CBM serial printers and CBM printers featuring CBM Ethernet Modules. It also means that the

CBM Ethernet Module is transparent to the end user at the POS terminal since operation is identical to that of a CBM serial printer.