Eaton Gigabit Network Card frequently asked questions:

1. **What is the Eaton Gigabit Network Card?**
   The Eaton Gigabit Network Card (Network-M2) is Eaton's latest UPS connectivity device that delivers IT professionals with new and exciting capabilities and features. With better speed and cybersecurity, the Gigabit Network Card improves business continuity in two ways: by providing warnings of pending issues to administrators and helping to perform orderly shutdown of servers and storage.

2. **Is the Gigabit Network Card compatible with Eaton Intelligent Power Manager (IPM) power management software?**
   Yes, the new network card works with IPM v1.61 or higher to enable higher-level resiliency by triggering virtual machine relocation or automated disaster recovery action.

3. **Does Eaton still sell the Network Card-MS (Network-MS)?**
   Only for a limited time because this new network card replaces the Network Card-MS.

4. **Is there ever a need to purchase the current Network Card-MS (Network-M2)?**
   People requiring LDAP/Radius authentication will need to continue purchasing the current Network-MS until the feature is available for the Gigabit Network Card, which is expected in early 2019.

5. **How much does the Gigabit Network Card cost?**
   $329 USD

6. **What are the cybersecurity enhancements?**
   Encryption
   - Latest encryption algorithms with strong keys.
   - Only secure protocols enabled by default.
   - Firmware is signed and encrypted, and will not boot if tampered with.

   Password management
   - Requires change of password on setup.
   - Configurable requirements for password complexity.
   - Certificate based authentication in machine to machine connections – no username/password information saved on the client machine, separate certificates for each protocol.

   Performance and design
   - Only necessary services enabled by default.
   - File system is signed and checked at runtime.
   - Secure SMTP for email sending, with optional authentication.

7. **Does the Gigabit Network Card enhance the capabilities of the UPS?**
   Yes, a UPS can be linked to other systems with the network card, thereby creating a system that can be used to save costs or provide additional functionality. Also, computers can be rebooted remotely with load segment controls or automatically.

8. **Does the network card meet the requirements of modern IT environments?**
   Yes, with Gigabit speed for compliance with networking equipment, many of which no longer support 10/100 Mb speeds, and more stringent requirements for cybersecurity and strong encryption. Correctly determining the sequence of events is critical in case of malfunction in the infrastructure. The Gigabit Network Card keeps accurate time with NTP and by using a real-time clock with a replaceable backup battery.

9. **How else will the Gigabit Network Card help me?**
   This device reduces setup time and enables compatibility without changing port settings on the network switch. The network switches are better performing, more cost effective, more widely deployed, and best used with GB compatible devices.

10. **Which network ports need to be open for the communication between the card and IPP/IPM?**
    For discovery service: 5353/udp (MDNS/DNS-SD)
    For communication: 8883/tcp (MQTT)