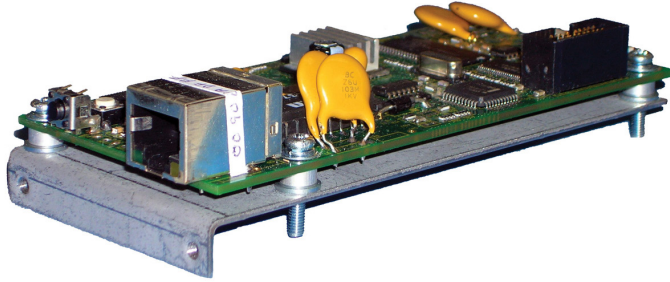




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FXM/Micro Communication Module

Network Management Interface



- Remotely monitors UPS status and views automatic event notification
- Upgrades firmware via Web browser
- Maintains performance statistics and settings through a standard UPS MIB
- Configures scheduled settings for shutdown, startup and self-test function
- Streamlines system maintenance through a user-friendly graphical interface

The FXM Communication Module is a compact system controller designed for the seamless set up and operation of Alpha power systems.

By utilizing TCP/IP technology, the user can configure, monitor and control Alpha's UPS power equipment through a network Web browser. This module can be integrated into an existing network management platform that utilizes industry standard protocols.

FXM Communication Module Network Management Interface

FXM Communication Module

Remote UPS Monitoring and Management

HTTP: Hyper Text Transfer Protocol allows remote UPS monitoring and management through a web browser. The following browsers are supported: Microsoft Internet Explorer 7, 8 and 9.

SNMP: Simple Network Management Protocol allows centralized UPS monitoring and management through a network management system such as HP Open View or SNMPc.

Proactive UPS Event Handling

Event Log: Automatically records and displays UPS events, warnings and time stamps.

UPS Status Notification: SNMP notifies host UPS status and warning messages.

Email Notification: Power events can be sent through email.

Intelligent UPS Management

User Scheduling: Allows configuration of scheduled settings for shutdown, startup and self-test functions.

Specifications

CPU:	32-bit micro controller
RAM:	8MB
Flash ROM:	4MB
LAN Interface:	Auto-sense 10/100Mbps Fast Ethernet
Network Protocol:	TCP/IP, UDP, SNMP, SMTP, HTTP, SMTP
LED:	LAN 10/100 Link
Power Consumption:	3W max.
Miscellaneous:	IP and hardware reset buttons
Language:	English (default); supports all unicode-based languages
Firmware Upgrading:	Network upgrade; fail-safe network upgrade
System Security:	Password protection for system operation and administration
Approvals:	CE, FCC Class B

The screenshot displays the 'Power' interface of the Alpha Technologies FXM Communication Module. At the top, there's a status bar with 'UPS MODE' set to 'Line' and 'Alarms' and 'Faults' indicators. A left sidebar contains a tree view with categories like UPS Specification, UPS Monitoring, Input & Output, Battery & Inverter, Relay & Load Shed, User Input, UPS Maintenance, Event Manager, Upgrade Files, Upgrade FXM Firmware, Upgrade Com Module, Configure Site Information, Communications, and Keep Alive. The main content area is divided into two sections: 'Input Parameters' and 'Output Parameters'. The 'Input Parameters' table shows Voltage (120 VAC), Frequency (60.0 Hz), and Mode (Line). The 'Output Parameters' table shows Voltage (119 VAC), Voltage 2 (0 VAC), Frequency (60.0 Hz), Current (0.0 A), Current 2 (0.0 A), Power (0 VA), Power 2 (0 VA), Power Factor (0.0), and Power Meter (0.0 KWh).

Remote Status and Monitoring

FXM input/output and battery parameters can be viewed as well various setting can be updated remotely. Dry contact configuration can be viewed or changed based on site or user requirements.

This screenshot shows the 'Upgrade FXM Firmware' section of the interface. The sidebar is identical to the previous screenshot. The main content area features a 'File Path' input field with a browse button and a 'Send File' button.

Firmware Updates

Both FXM firmware and SNMP card software can be upgraded remotely via web page*. Costly truck rolls can be avoided and new feature can be implemented with ease.

This screenshot displays the 'Email Destinations' and 'SMTP Server Settings' sections. The sidebar remains the same. The 'Email Destinations' section has buttons for 'Add Destination' and 'Remove Destination', and a text area showing 'To: daljit.hothi@alpha.ca' and 'Notify of: Faults, Alarms, Events'. The 'SMTP Server Settings' section includes input fields for 'SMTP Server Address' (10.1.0.20), 'SMTP Server Port' (25), and 'From Address' (FXM_Tech@alpha.ca), with an 'Apply Settings' button.

Email Notification

User can set up automatic email notification for status change, events or faults to remotely manage sites and to respond in a timely manner proactively.

*Units with blue LCD. Older units has to be upgraded locally once to implement this feature.



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