LANTRONIX®

New Firmware Version 1.5 For XPort

In our continuing process of improving our products and providing new solutions, Lantronix is introducing new firmware for the XPort products. This release, version 1.5, replaces version 1.3 of firmware for the XPort product.

Version 1.5 firmware brings new features and functionality to the XPort, and also includes a number of maintenance updates to resolve issues with the preceding version of firmware. The new firmware has begun shipping with new orders, and is also available as an upgrade to existing units via a download procedure. In addition to maintenance updates, version 1.5 also includes these new features:

New Features:

Feature	Description
Selectable Start Character	The ability to change the default start character in ConnectMode.
Enhanced Monitor Mode	The RS command can now be used with RS 255.255.255.255 to reset all installed XPort units.
Increasing port number	Increase outgoing portnumber when connection was refused. The portnumber will be incremented for each new connection even if a connection was actively refused.
Reset options	Now it is possible to prevent the Reset after writing individual configuration records over port 77FEh
Communication with Port 77F0h	We now support UDP on port 77F0h. The protocol has been modified, including new commands.
Port 77F0 options	Now you can enable/disable port 77F0
Gratuitous ARP	Gratuitous ARP messages are sent periodically (every 3 minutes) during normal system operation to allow switches to perform their book keeping for ARP entries

Resolved Problems

➢ Opening and closing socket connections to a port causes XPort to lock up. TCP connection queuing mechanism updated to prevent spurious TCP events to be generated.

➢ You had just 12s after boot up for doing the ARP trick if Autoip is disabled. Time has been increased to 70s.

➢ The startcharacter functionality filtered out the startcharacter. Now it is sent with the data stream.

➢ Do not change the default for TCPKeepalive from 0 to 45 stored in the unit's setup record.

- If one enabled the Enhanced password and didn't change the password right after that, the flag for enabling the enhanced password wasn't stored.

- DHCP transaction ID in request message was wrong, should be the same as in the messages discover and offer.

- Port number misrepresented in menu display, when port number greater then 32767

- Two devices could possibly use the same xid (Transaction ID) which could cause conflicts in a DHCP server.

- We did not send out ARP requests to our own IP.

- Reset all network devices with RS broadcast command in Node Setup did not work.

- Loading a Webpage large enough to go beyond the supported range caused the unit to not function. Its MAC address, setup records, and/or firmware had to be recovered.

- If you use the SC command in Monitor mode to send the configuration of the local unit to the remote unit the IP address got changed also.

- XPort reboots when serial data is passed thru serial port during the boot process.

- Invalid value following ATE command caused the firmware to enter invalid state. Now the code checks the value and only allows '0' or '1'.

- Zmodem causes Xport to lock up in one direction. The TCP retransmit behavior in the presence of lost segments exhibited incorrect behavior.

- TCP FIN Flag not set correctly and not recovering gracefully when the final ACK is lost.

- Previous connection's SYN-ACK resulted in connection establishment.

- Modem mode display updated in the manual to NO CARRIER instead of DISCONNECT.

- The XPort manual has been updated with specific settings for the "Factory defaults" Setup menu option.

- Changed the FD command processing for port 77FE so that it just stores the single setup record.

For more details and download information, release notes are available via the Lantronix web site (www.lantronix.com)