

SeaLINK Multiple Serial Port Device

Abstract:

This tech note describes the procedure for installing the necessary drivers and utilities to use a SeaLINK 480x and 440x (Ethernet to Multiple Serial Ports) device with a Sixnet IPm. In order to successfully install the IPm SeaLINK package, users will need v2.2 of the Sixnet I/O toolkit and v1.5 IPm firmware. The provided documentation and software package only supports the SeaLINK series of products.

License and Support Notice:

The software in this package is GPL (General Public License) software and is subject to use in accordance with the GPL software license, which may be found on the Sixnet CD and web sites. This software is supplied by Sixnet as a service to users integrating IPm devices with SeaLINK devices. No other use is recommended or supported by Sixnet. For more information about SeaLINK devices, please contact Sealevel Systems, www.sealevel.com. At the time of this writing, this software has not been integrated into the Sixnet I/O Tool Kit. It is also not supported by the standard Sixnet and Modbus drivers included in the standard IPm firmware. It is merely provided for users who wish to link virtual serial ports, through an Ethernet link to their own application programs.

SeaLINK IPm Package

The following files are provided in the Sixnet supplied SeaLINK package (sealink_ipm.tar.gz):

- | | |
|--|---|
| • /etc/sealink.conf
daemon | This file is the basic configuration file used by the SeaLINK (sealinkd). The file contained in the package is the default. |
| • /etc/user.d/Ssealink.sh
module | This file is the startup script used to load the SeaLINK kernel and daemon. The file is a modified version of the SeaLINK supplied rc.sealink script. |
| • /lib/modules/SeaLink.o
the Ssealink.sh | This file is the SeaLINK kernel module and loaded via startup script. |
| • /sbin/sealinkd | This file is the SeaLINK daemon. |
| • /usr/sbin/sealinkcfg
to make | This file is the SeaLINK configuration utility. This file is used the necessary network configurations to allow the IPm to talk to the SeaLINK device. This utility creates the /etc/sealink.conf configuration file. |

Installation

There are two methods to load the IPm SeaLINK package:

Using the Sixnet I/O Tool Kit Software

- Open the I/O Toolkit
- Select the appropriate project file
- Select the IPm station you want to install the package to and click on:
 - Operations
 - File Operations...
- Click the file type dropdown box (next to the "Load File" button) and select "Install Tar bundle"
- Click the "Load File" button and select the sealink_ipm.tar.gz package.
- Click the "Open" button.

Using FTP/TELNET

- FTP the sealink_ipm.tar.gz to the root directory of the IPm.
- TELNET to the IPm and execute the following commands:

Note: FTP and TELNET are only available in select IPm products such as the VT-IPm and ST-IPm and must first be enabled in the station through the I/O Tool Kit that is registered for "IPm Advanced" use.

```
~ # cd /  
~ # tar zxvf sealink_ipm.tar.gz  
~ # rm -f sealink_ipm.tar.gz  
~ # exit
```

Please view the SeaLINK documentation for further information on how to configure the SeaLink device for your application.

Additional Documentation

[Sealevel Web Site: www.sealevel.com](http://www.sealevel.com)

Sealevel Supplied User Documentation