

Ethernet LAN/WAN Communications

C3-ilex is pleased to announce our latest option to the 9300 RTU product and the EOScada master – 10/100 Base-T Ethernet Local Area Network (LAN) communications.

The C3-ilex 9300 RTU and the C3-ilex EOScada master station support Ethernet communications with each other over a Wide Area Network (WAN), a Local Area Network (LAN) or a combination of both. Both EOScada and the 9300 RTU can support a combination of IP and serial communications

Since the EOScada master is PC based, it can utilize a variety of standard Network Interface Cards (NIC's) that support one or more ports. The C3-ilex 9300 RTU can be equipped with a Ethernet card option for 10Base-T interfaces.

The C3-ilex equipment uses the DNP3.0 protocol layered on either TCP/IP and/or UDP/IP as prescribed by the DNP document "Distributed Network Protocol (DNP) V3.00, Transporting DNP V3.00 over Local and Wide Area Networks". The same WAN connection that is used to communicate between the EOScada master and the RTU's can also be used for a variety of other purposes. These could include such diverse things as using a "web-cam" for sub-station surveillance and using IED manufacturer's proprietary (IP) interfaces to collect non-DNP information from IED's or to configure them.

An EOScada master can communicate simultaneously with a mixture of 9300 RTU's and any combination of other compliant DNP3.0 – IP slave devices or other serial devices of any supported protocol. C3-ilex 9300 RTU's can also be used with any DNP3.0- IP compliant master. An EOScada master can act as a slave device to another EOScada master or any DNP3.0 – IP compliant master, using the EOScada "sub-master" feature, Both network and serial links can be supported simultaneously.

For security, the IP address of any master(s) with which a DNP3.0 – IP slave will communicate must be programmed into the slave device. Both the C3-ilex 9300 RTU and the EOScada master adhere to this and all DNP3.0 – IP requirements.