

XPosition A-XGPS

The XPosition module provides connectivity between high precision GPS and inertial navigation devices to Rockwell Automation's Logix (ControlLogix[®] and CompactLogix[™]) family of controllers.

The module operates in a Logix "owned" mode. With a Logix connection the input and output assemblies will provide additional diagnostics information which will be available in the Logix controller environment.

The module uses an external GPS receiver to provide accurate position information. The external GPS or inertial navigation device provides various accuracy estimates allowing the user to make informed decisions for high precision position and velocity applications.

The XPosition module supports dual antenna receivers, allowing users to access Yaw, Tilt and Heading data.

The integrated webserver provides detailed diagnostics of system configuration and operation, including the display of GPS time, position, and velocity without the need for any additional software.



Features

- ❖ EtherNet/IP interface to high precision Positioning equipment:
 - GPS devices
 - Inertial Navigation
 - Supports NMEA over Ethernet
- ❖ Positioning and Velocity information in Logix image
- ❖ Positioning and Velocity information for Modbus TCP/IP (as a Slave)
- ❖ Positioning Accuracy and Status information

Configuration

- ❖ The Slate Configuration Utility software is used for configuration and troubleshooting of the module. The stand-alone configuration utility allows users to define the setup and configuration of the XPosition module, connections with controllers and devices.
- ❖ The configuration utility can be downloaded from www.prosoft-technology.com

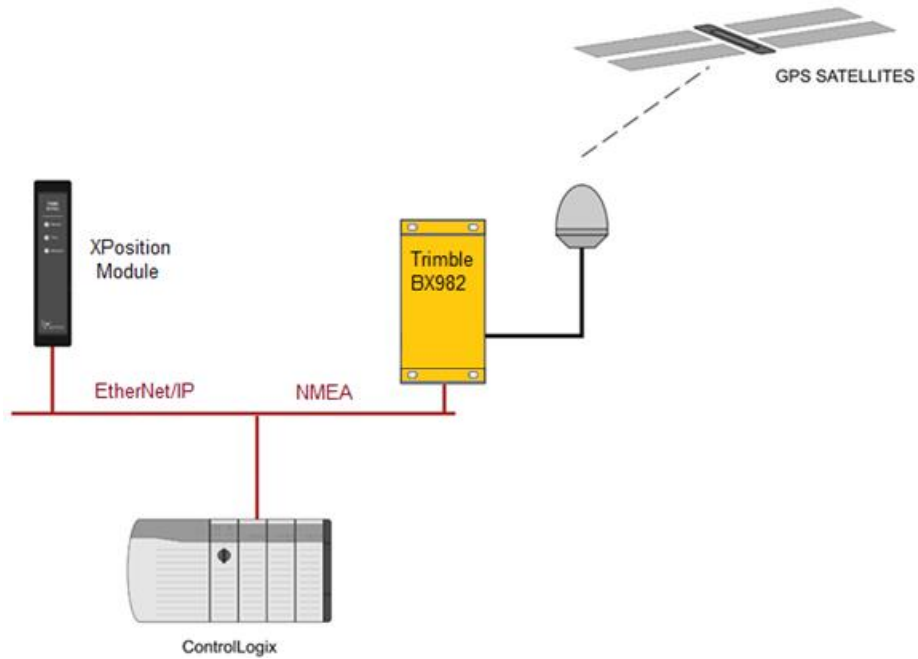


Figure 1 - Example of a typical network setup

The XPosition module will convert the data received from the high precision device (in this case the Trimble™ BX982) in order for the Logix controller to use it. The XPosition can also connect to the Logix controller or Precision GPS / Inertial navigation device over wireless networks allowing the user to accurately measure position of mobile applications (e.g. Cranes, Stackers, etc).

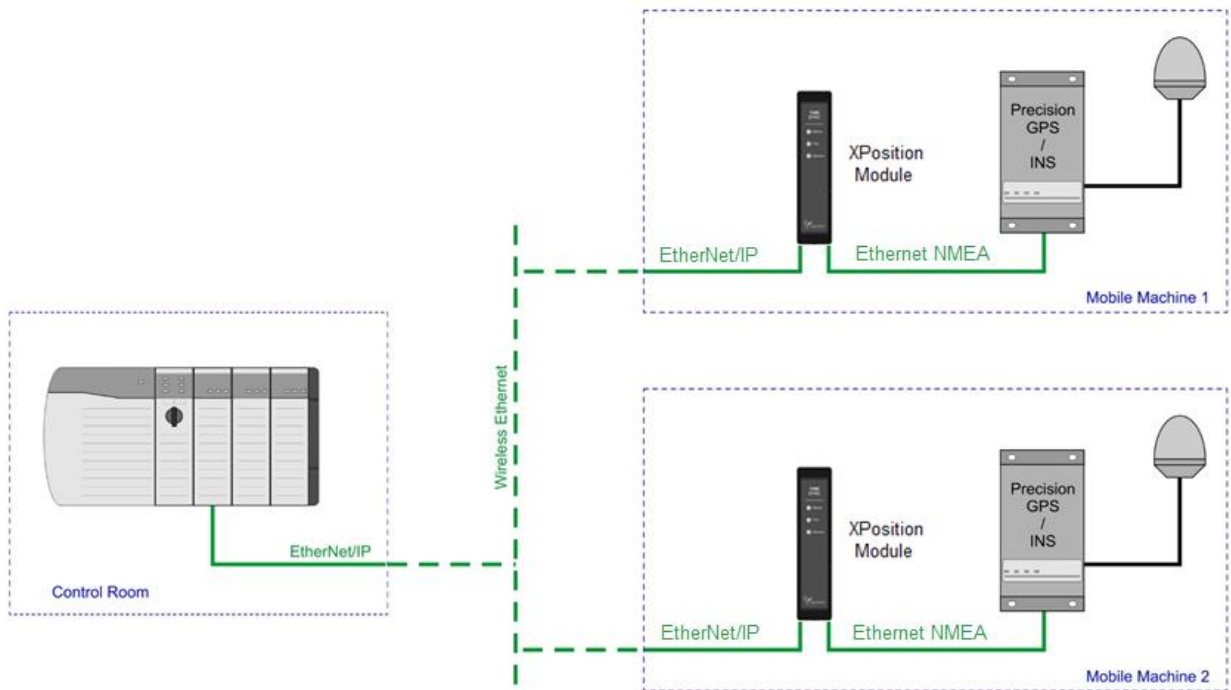


Figure 2 - Example of a wireless network setup

Specifications

Ethernet

Specification	Rating
Connector	RJ45
Conductors	CAT5 STP/UTP
ARP Connections	Max 20
TCP Connections	Max 20
CIP Connections	Max 10
Communication Rate	10/100Mbps
Duplex Mode	Full / Half
Auto-MDIX Support	Yes
Protocol Support	EtherNet/IP™ Modbus TCP/IP®

Hardware

Specification	Rating
Power Supply	Input: 10 to 28V DC, (70mA @ 24VDC)
Power Consumption	1.7 W
Dimensions (H x W x D)	101.0 x 22.5 x 120.0 mm
Enclosure Rating	IP20, NEMA/UL Open Type
Temperature	-20 to 70 °C
Humidity	0 to 95% RH, non-condensing
Earth Connection	Yes, terminal based
Emissions	IEC 61000-6-4
ESD Immunity	EN 61000-4-2
Radiated RF Immunity	IEC 61000-4-3
EFT/B Immunity	IEC 61000-4-4
Surge Immunity	IEC 61000-4-5
Conducted RF Immunity	IEC 61000-4-6

Agency Approvals & Certifications

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A-XGPS

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