



The TALON[®] Network Manager is a member of the TALON System suite of Java-based controller/server products, software applications and tools, which are designed to integrate a variety of devices and protocols into unified, distributed systems. The Network Manager is powered by the Niagara^{AX} Framework[®]. The Network Manager provides system-level control and interoperability for a wide range of industry standard open protocols and devices. Residing on a high-speed Ethernet network, the TALON Network Manager utilizes Internet standards to enable communication between LONWORKS[®], BACnet[®], and MODBUS products.

The TALON Network Manager communicates via Ethernet, Internet/Intranet, or modem. Functions may be monitored and controlled directly from a TALON Workstation or from any standard Web browser interface. The TALON Network Manager applications are created and updated with the Talon Workstation network management tool.

Controller Features

- Integrates LONMARK[®] controllers and other open system products and protocols.
- Coordinates event and equipment scheduling and live trending functionality.
- Controller embedded database reduces cost by eliminating the need for an on-line workstation.
- Incorporates Ethernet network for high speed communication and distribution of real-time control functions.
- Scalable functionality, from one to many TALON Network Managers, based on facility needs.
- Four hardware variations to address the needs of any sized system.
- Real-time clock enables stand-alone operation and time-based functionality.
- Supports Embedded Workbench (optional) for projects that require an onsite programming tool be included with the project.

Access Features

- Access from a personal computer or other Web-enabled device (including a TALON Workstation), from any location via Internet with a standard Web browser.
- Acts as secure web server for graphics, as well as for trend information and alarms.
- Allows an unlimited number of users to have simultaneous access.
- Performs alarm management and historical trend data collection via the Cloudscape database.
- Offers flexible and powerful password and security options.
- User monitoring and control of a facility is provided through a familiar browser interface.

System-Wide Programmable Control and Monitoring

The high-performance TALON Network Manager, with embedded database, is easily programmed to perform network functions including:

- LONTALK[®] network variable connections.
- Holiday Scheduling
- Operational Scheduling
- Trend Collection and graphical display
- Alarm processing and routing
- Synchronization of global time functions
- Peak Demand Limiting
- Optimal Start/Stop
- Automatic Daylight Savings Time switchover
- Site-specific graphic displays of the system equipment can be placed into TALON Network Manager's embedded database.

Hardware

The Talon Network Manager is available in the following styles:

- Small Building Network Manager (27 node limit)
 - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (1) RS-232 port, (1) RS-485 port
- I/O Building Network Manager with Expanded Nodes
 - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (1) RS-232 port, (1) RS-485 port
- Basic Plus Network Manager
 - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (2) RJ-45 connection for RS-232 ports, (4) RS-485 ports
- Basic Plus Network Manager with Web Browser Access
 - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (2) RJ-45 connection for RS-232 ports, (4) RS-485 ports

Specifications

Specification	
Processor Type	
Small Building Network Manager	Motorola RISC Processor
I/O Building Network Mgr w/ Exp Nodes	Motorola RISC Processor
Basic Plus Network Manger	Motorola RISC Processor
Clock Speed	
Small Building Network Manager	250 MHz
I/O Building Network Mgr w/ Exp Nodes	250 MHz
Basic Network Manager	250 MHz
Communication Speed	
Ethernet Network	10 or 100 Mb
LonWorks	78.8K bps
Memory Size	
Small Building Network Manager	64 MB RAM and 32 MB Flash for database backup
I/O Building Network Mgr w/ Exp Nodes	64 MB RAM and 32 MB Flash for database backup
Basic Plus Network Manager	128 MB RAM and 32 MB Flash for database backup
Battery Backup of RAM	
Small Building Network Manager	60 days (minimum)
I/O Building Network Mgr w/ Exp Nodes	60 days (minimum)
Basic Plus	60 days (minimum)

Communication Interfaces	
Small Building Network Manager	1 Ethernet port , 1 LonTalk port, 1 RS-232, 1 RS-485 with Web browser access
I/O Building Network Mgr w/ Exp Nodes	1 Ethernet port , 1 LonTalk port, 1 RS-232, 1 RS-485 with Web browser access
Basic Plus	
588-720	1 Ethernet port , 1 LonTalk port, 2 RJ-45 connections for RS-232, 4 RS-485
588-721	1 Ethernet port , 1 LonTalk port, 2 RJ-45 connections for RS-232, 4 RS-485 with Web UI & Enterprise Connectivity
Voltage Requirements	
Small Building Network Manager	120 Vac @ 50 to 60Hz (on AC power) – 25 VA Maximum
I/O Building Network Mgr w/ Exp Nodes	120 Vac @ 50 to 60Hz (on AC power) – 25 VA Maximum
Basic Plus Network Manager	120 Vac @ 50 to 60Hz (on AC power) – 25 VA Maximum
Ambient Operating Environment	
Small Building Network Manager	32°F to 122°F (0 to 50°) 5 to 95%, non-condensing
I/O Building Network Mgr w/ Exp Nodes	32°F to 122°F (0 to 50°) 5 to 95%, non-condensing
Basic Plus Network Manager	32°F to 122°F (0 to 50°) 5 to 95%, non-condensing
Agency Listings	UL 916 PAZX/PAZX7 (Enclosed Energy Management)
Agency Compliance	FCC Part 15, Class A CISPR 22 Class A CE Mark Australian EMC Framework
Dimensions	
Small Building Network Manager	11" H × 14" W × 2.5" D (280 mm × 356 mm × 64 mm)
I/O Building Network Mgr w/ Exp Nodes	11" H × 14" W × 2.5" D (280 mm × 356 mm × 64 mm)
Basic Plus Network Manager	11.25" H × 12.5" W × 3.5" D (286 mm × 318 mm × 89 mm)
Weight	
Small Building Network Manager	Net 4 lbs (1.8 Kg) / Gross 5 lbs (2.3 Kg)
I/O Building Network Mgr w/ Exp Nodes	Net 4 lbs (1.8 Kg) / Gross 5 lbs (2.3 Kg)
Basic Plus Network Manager	Net 4 lbs (1.8 Kg) / Gross 5 lbs (2.3 Kg)
Mounting Surface	
Small Building Network Manager	Building Wall or Structural Member
I/O Building Network Mgr w/ Exp Nodes	Building Wall or Structural Member
Basic Plus Network Manager	Building Wall or Structural Member

Ordering Information

Small Building Network Manager (SBNM)

Description	Product Number
AX SM BLDG NM (SBNM) - WEB	588-700
AX SBNM -WEB 220V	588-700-I
AX SBNM WEB & ENTRPRS CONN PK	588-701
AX SBNM WEB/ENTRPRS PK 220V	588-701-I

I/O Building Network Manager (I/O BNM)

Description	Product Number
AX IO BNM (IOBNM) EXP NODE-WEB	588-710
AX IOBNM EXP NODE 220V - WEB	588-710-I
AX IOBNM WEB & ENTRPRS CONN PK	588-711
AX IOBNM WEB/ENTPRS PK 220V	588-711-I

Basic Plus Network Managers (BPNM)

Description	Product Number
AX BASIC PLUS TNM (BPNM)	588-720
AX BPNM WEB & ENTRPRS CONN PK	588-721

Soft Network Manager

Description	Product Number
AX SOFT TNM 10M RESOURCE W/ BAC IP	588-789
AX SOFT TNM 30M RESOURCE W/ BAC IP	588-790
AX SOFT TNM UPGD 10M TO 30M RESOURC	588-791
AX SOFT TNM COMM OPTION WEB INTRF	588-792
AX SOFT TNM ENTRPRS CONN PK	588-793

Communication Options

Description	Product Number
AX SM/IO/BP INTERNAL MODEM	588-630
AX SM/IO BNM ENTRPRIS CONN PCK	588-631
AX SM/IO BNM WEB INTRFACE UPGD	588-632
AX BPNM ENTRPRISE CONN PCK	588-650
AX BPNM WEB INTRFACE UPGD	588-651

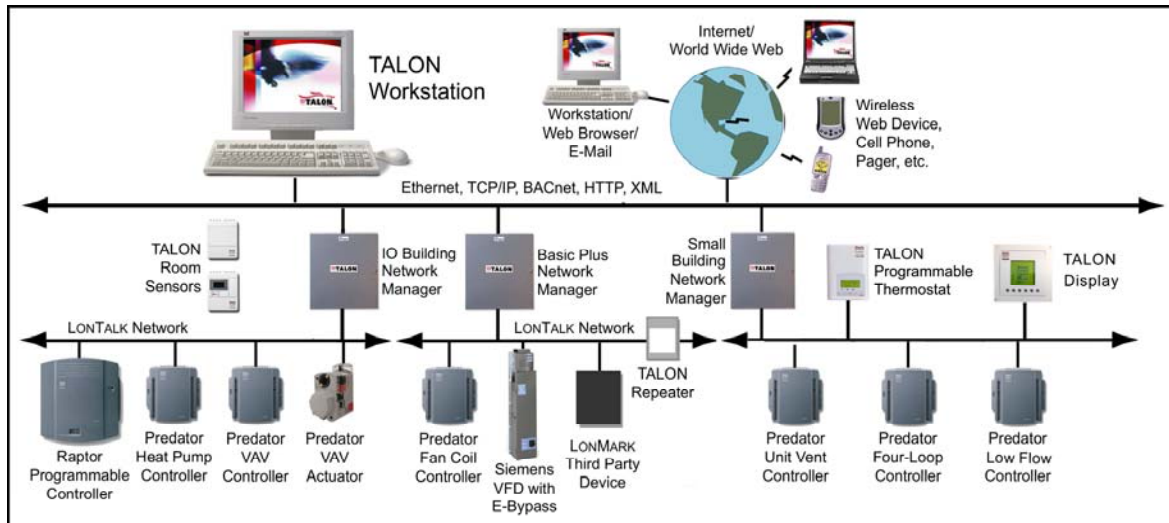
Driver Options

Description	Product Number
Common Drivers to all Talon Network Managers	
AX MODBUS RTU/ASC11 RS-485/232	588-811
AX MODBUS TCP - 25 NODE LIMIT	588-812
AX TNM DATA TO MODBUS RS-485	588-813
AX TNM DATA TO MODBUS TCP	588-814
AX BACNET RS-485 MSTP 31 NODE	588-815
AX IMPORT SNMP DATA	588-816
AX SMART II DRIVER	588-817
AX SOFT OPC CLIENT DATA ACCESS	588-885

Miscellaneous Options

Description	Product Number
NETWORK MANAGER LICENSE CHANGE FEE	587-820

TALON Architecture



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Siemens Building Technologies, Inc.
 HVAC Products
 1000 Deerfield Parkway
 Buffalo Grove, Illinois 60089
 Phone 847-215-1000
www.staeffa.com



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