



TALON Network Manager



The TALON[®] 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.

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

- NX Network Manager that includes one dual RS-232 card, Embedded XP, an Ethernet port, and a LonWorks port. It can also be selected with any of the following options enabling you to customize a solution to meet customer needs:
 - Communication Options
 - Web browser access
 - (2) port RS-232
 - (2) isolated port RS-485
 - Internally mounted Modem
 - Miscellaneous Items
 - Cloudscape archive database
 - RAM upgrade to 512K (comes with 256K)
 - Operating Systems Upgrade
 - Full XP (includes desktop environment)

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
NX Network Manager	High Speed Intel™ Celeron
Clock Speed	
Small Building Network Manager	250 MHz
I/O Building Network Mgr w/ Exp Nodes	250 MHz
Basic Network Manager	250 MHz
NX Network manger	1.2 GHz
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
NX Network Manager	256 MB RAM (Minimum 20-Gbyte IDE hard drive standard)
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	
587-732	1 Ethernet port , 1 LonTalk port, 2 RJ-45 connections for RS-232, 4 RS-485
587-733	1 Ethernet port , 1 LonTalk port, 2 RJ-45 connections for RS-232, 4 RS-485 with Web browser access
NX standard capabilities	1 Ethernet port , 1 LonTalk port, 2 RS-232
Optional items include:	
Select maximum of 3 cards:	
587-759	Dual RS-232 card
587-760	Dual RS-485 card with isolated ports
Also supports:	
587-749	Web Browser Access
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
NX Network Manager	108 to 132 VAC universal @ 47 to 63Hz - input power of 2A 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
NX Network Manager	32°F to 95°F (0 to 35°) 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)
NX Network Manager	7.6" H × 6.8" W × 10.1" D (192 mm x 172 mm × 256 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)
NX Network Manager	Net. 9.9 lbs (4.5 Kg) / Gross 13.9 lbs (6.3 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
NX Network Manager	Floor or Table top

Ordering Information

Small Building Network Manager

Description	Product Number
Small Building Network Manager w/ (1) E-net, (1) LonWorks, (1) RS-232 port, (1) RS-485 port	587-724
Small Building Network Manager 240Volt	587-724I

I/O Building Network Manager with Expanded Nodes

Description	Product Number
I/O Building Network Manager with Expanded Nodes w/ (1) E-net, (1) LonWorks, (1) RS-232 port, (1) RS-485 port	587-730

Basic Plus Network Managers

Description	Product Number
Talon Basic Plus Network Manager with (1) E-net, (1) LonWorks, (2) RS-232 port, (4) RS-485 port	587-732
Talon Basic Plus WEB Manager with (1) E-net, (1) LonWorks, (2) RS-232 port, (4) RS-485 port	587-733

Communication Options

Description	Product Number
Basic Plus Talon Network Manager Web Interface Upgrade	587-731
Small, I/O and Basic Plus Network Managers option – Internal Modem	587-725

Driver Options

Description	Product Number
Common Drivers to all Talon Network Managers	
Network Manager Native MODBUS Driver	587-811
Network Manager Ethernet MODBUS Driver	587-813
Network Manager MODBUS Ethernet Slave Driver	587-814
Network Manager MODBUS RS-485 Slave Driver	587-833
Network Manager Smart II Driver	587-815
Network Manager SNMP Alarm Export Driver	587-829
Network Manager EIB Driver	587-830
Network Manager McQuay OPM Driver	587-831
Network Manager TCS-Basys 1022/1041 Stat Driver	587-823
Network Manager GE TLC Lighting Serial Driver	587-824
Network Manager DATAIRE Driver	587-828
Network Manager Novus Access System with 2 doors	587-834
Network Manager Novus Extra Door - Each	587-835
Network Manager Serial Driver	587-836
Small, I/O and Basic Plus Network Manager Driver	
Network Manager MSTP BACnet Driver (not supported on NX)	587-832

Driver Options Continued

Description	Product Number
NX Network Manager Drivers	
NX Network Manager DDE Client (Not supported on Small, I/O, or Basic)	587-812
NX Network Manager OPC Client (Not supported on Small, I/O, or Basic)	587-837

Miscellaneous Options

Description	Product Number
Small Building Network Manager – Expanded node upgrade (license change)	587-762
Network Manager License Change Fee	587-820

NX Network Managers – Due to the selectable options, the NX version must be ordered as follows:

STEP 1 – select **ONE NX hard drive version**

Description	Product Number
NX Talon Network Manager with Embedded XP and Lon card 256K RAM (120 Volts)	587-726
NX Talon Network Manager with Embedded XP and Lon card 256K RAM (240 Volts)	587-727

The following steps are only necessary if the job site requires them

STEP 2 – select **UP TO TWO Card Options**

Description	Product Number
Card Option – NX Talon Network Manager Option – Modem	587-758
Card Option – NX Talon Network Manager Option – Additional Dual RS-232 card (Note: The Base NX hard drive comes with a Dual RS-232 card)	587-759
Card Option - NX Talon Network Manager Option – Dual RS-485 card with isolated ports	587-760
NX Talon Network Manager Option – Web Browser Access	587-749

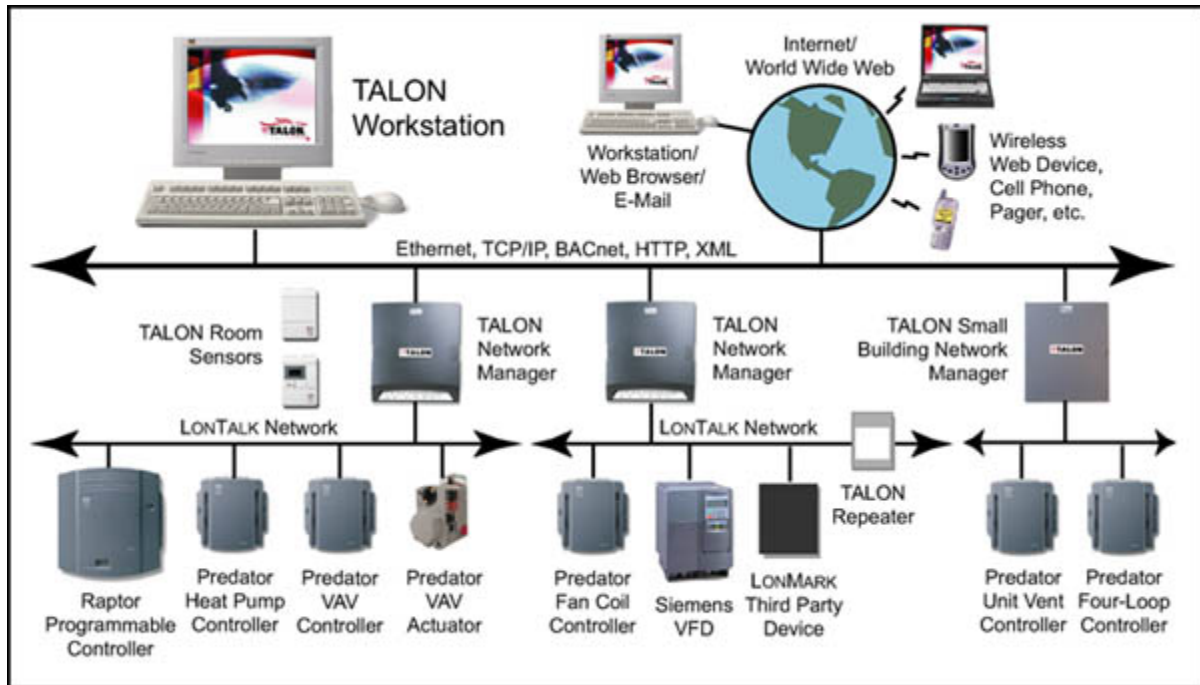
STEP 3 – select **Any of the following Miscellaneous Options**

Description	Product Number
NX Talon Network Manager Option – Cloudscape Archive Database	587-750
NX Talon Network Manager Option – RAM upgrade to 512K	587-751

STEP 4

Description	Product Number
NX Talon Network Manager Full Featured XP Upgrade	587-753

TALON Architecture



Notice: Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced.

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