TALON Network Manager

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.
- Scaleable 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 (128MB RAM)
    - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (1) RS-232 port, (1) RS-485 port
- Building Network Manager with Expanded Memory (256MB RAM)
    - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (1) RS-232 port, (1) RS-485 port
- Basic Plus Network Manager (256MB RAM / 128MB Flash)
    - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (2) RS-232 ports, (4) RS-485 ports
- NXS Network Manager (512MB RAM w/ 1 GB Flash Drive or 40GB Hard Drive)
    - (1) LonWorks Trunk Interface, (1) 10/100 Mb Ethernet Network Interface, (1) RS-232 port, (1) RS-485 ports

Specifications

Specification	
Processor Type	
Small Building Network Manager	Motorola RISC Processor
Building Network Mgr w/ Exp Memory	Motorola RISC Processor
Basic Plus Network Manger	Motorola RISC Processor
NXS Network Manager	Celeron Processor
Clock Speed	
Small Building Network Manager	250 MHz
Building Network Mgr w/ Exp Memory	250 MHz
Basic Plus Network Manager	250 MHz
NXS Network Manager	650 MHz
Communication Speed	
Ethernet Network	10 or 100 Mb
LonWorks	78.8K bps
Voltage Requirements	
Small Building Network Manager	120 Vac @ 50 to 60Hz (on AC power) – 25 VA Maximum
Building Network Mgr w/ Exp Memory	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
NXS Network Manager	Universal Input power supply (100-240 Vac @ 50 to 60Hz)
Ambient Operating Environment	
Small Building Network Manager	32°F to 122°F (0 to 50°)
	5 to 95%, non-condensing
Building Network Mgr w/ Exp Memory	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
NXS Network Manager	Flash Drive - 32°F to 122°F (0 to 50°)
	Hard Drive - 32°F to 104°F (0 to 40°)
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)
	Building Network Mgr w/ Exp Memory	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)
	NXS Network Manager	7-9/16" H x 6-13/16" W x 10-1/16" D
		(192 mm x 172 mm x 256 mm)
Weight		
	Small Building Network Manager	Net 4 lbs (1.8 Kg) / Gross 5 lbs (2.3 Kg)
	Building Network Mgr w/ Exp Memory	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)
	NXS Network Manager	Net 9.9 lbs (4.5 Kg) / Gross 13.9 lbs (6.3 Kg)

Ordering Information

TNM (HW)

588-700	AX SM BLDG NM (SBNM) - WEB
588-700-I	AX SBNM -WEB 220V
588-701	AX SBNM WEB & ENTRPRS CONN PK
588-701-I	AX SBNM WEB/ENTRPRS PK 220V
588-703	AX SBNM - EXPANDED MEMORY, WEB UI
588-704	AX BASIC PLUS TNM - 120V
588-705	AX BASIC PLUS TNM - 220V
588-604	NXS TNM UPS FOR HARD DRIVE VERSIONS ONLY
588-743	AX NXS TNM HARD DRIVE
588-744	AX NXS TNM FLASH DRIVE W/UPS

TNM COMM OPTIONS

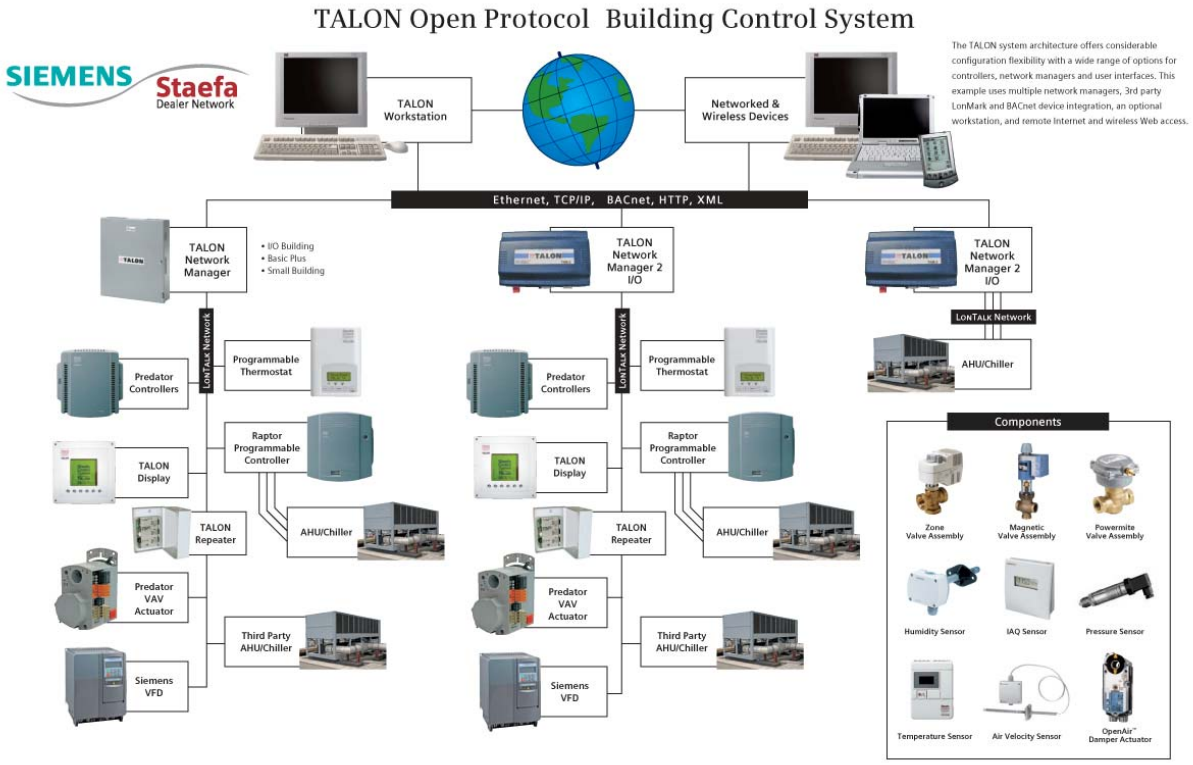
588-951	AX EMBD WORKBENCH CUSTMR TOOL
588-631	AX SM/IO BNM ENTRPRIS CONN PCK
588-633	ENCLOSURE 12"X18"X4" W/POWER (TNM2&6)
588-634	ENCLOSURE 12"X28"X4" W/POWER (TNM2&6)
588-635	BACK PLATE OPTION 8"X11" FOR 588-633
588-636	BACK PLATE OPTION 11"X11" FOR 588-634
588-650	AX BPTNM ENTRPRISE CONN PCK
588-651	AX BPTNM WEB INTRFACE UPGD

TNM DRIVERS (client, enterprise, and legacy)

588-811	AX MODBUS RTU/ASC11 RS-485/232
588-812	AX MODBUS TCP - 25 NODE LIMIT
588-813	AX TNM DATA TO MODBUS RS-485
588-814	AX TNM DATA TO MODBUS TCP
588-815	AX BACNET RS-485 MSTP 31 NODE
588-816	AX IMPORT SNMP DATA
588-817	AX SMART II DRIVER
588-825	BACNET IP CLIENT ETHERNET (TNM2&6 ONLY)

588-826	EIB / KONNEX IP DRIVER
588-827	FLEX DRIVER OVER RS232 OR RS485
588-828	LON OVER IP USING CEA-852
588-829	LON OVER TWISTED PAIR (TNM2&6 ONLY)
588-830	METER-BUS INTERFACE VIA RS232
588-831	Z-WAVE NETWORK DRIVER VIA RS232
588-832	BACNET IP SERVER OVER ETHERNET
588-840	NM DRIVER AMERICAN AUTOMATRICS. PHP
588-841	NM DRIVER ANDOVER AC256
588-842	NM DRIVER IR CONTROLLED AV EQUIPMENT
588-843	NM DRIVER HELVAR LIGHTING CONTROL
588-844	NM DRIVER HORTSMANN METERS
588-845	NM DRIVER JOSAM GREASE TRAP SENSOR
588-846	NM DRIVER LANG OVEN
588-847	NM DRIVER SMS ALARMS DRIVER
588-848	NM DRIVER VEEDER ROOT
588-885	AX SOFT OPC CLIENT DATA ACCESS

TALON Architecture



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TALON

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