



TALON Small Building Network Manager



Description

The TALON® Small Building Network Manager combines system-level control and standard open protocol interoperability with on-board input/output terminations to provide a cost effective solution for small building installations.

The Small Building Network Manager communicates via Ethernet, Internet/Intranet, or through a phone modem. Functions may be monitored and controlled directly from a TALON Workstation or from any standard Web browser interface. The Small Building Network Manager applications are created and updated with the current TALON Workstation Java Desktop Environment (JDE) Tool.

Controller Features

- Direct monitoring and control of equipment through 6 Universal Inputs and 4 Digital Outputs
- Cost effective method to meet small facility needs with Ethernet expansion capabilities to multiple TALON Network Managers for control of any sized facility
- 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.
- 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 simultaneous access.
- Performs alarm management and historical trend data collection.
- Offers flexible and powerful password and security options.
- Provides user monitoring and control of a facility through a familiar browser interface.

System-Wide Programmable Control and Monitoring

The high-performance TALON Small Building 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 the Small Building Network Manager embedded database
- Embedded WEB serving for the WEB browser operator interface

Hardware

The Small Building Network Manager offers on-board screw terminations for control and monitoring of directly connected equipment through the following:

- 6 universal inputs that accept
 - 10K ohm thermistors
 - 0-10 Volts
 - 4-20 mA (available on 4)
 - Network manager provides 20VDC @80 mA to power sensors
 - Dry contacts
 - Pulse inputs
- 4 Form C relay outputs for 24 VAC/DC @ 2 amps resistive

The manager can communicate with up to 27 nodes regardless if they exist on the directly connected LonWorks trunk or via the RS-485 port for communication to 3rd party devices, such as:

- BACnet[®] MSTP
- MODBUS[™]
- EIB[®]

Ordering of an internal modem will allow the manager to communicate with dial up/out sites. Or if the modem is not needed, the RS-232 port can be used to communicate to other 3rd party devices.

Specifications

Specification	
Processor Type	Motorola RISC Processor
Clock Speed	250 MHz
Communication Speed	
Ethernet Network	10 or 100 Mb
LonWorks	78.8K bps
Resource Count	600,000
Memory Size	64 MB RAM (32 MB Flash for database backup)
Battery Backup of RAM	5 years (minimum) – writes data to flash after pre-determined time
Communication Interfaces	1 RJ-45 Ethernet port 1 FTT-10 LonTalk port 1 RS-485 1 RS-232 (open if not used by the modem) 1 Optional auto dial 56K modem (factory installed)
Universal Inputs	6 (12 bit A/D) UI for: <ul style="list-style-type: none"> • 10K Ohm Thermistor (-10°F to 135°F) • 0-10 Volt • 4-20 mA (4 available with external resistor) • Dry contacts that can handle 24 Vdc • Pulse contacts (20Hz max for dry contact)
Digital Outputs	4 Form C (SPDT) relays rated for 24 VAC/DC @ 2 Amps <ul style="list-style-type: none"> • One LED indicator for each relay
Voltage Requirements	120 VAC @ 50/60 (25 VA maximum)
Ambient Operating Environment	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	14" H × 11" W × 2.5" D (340 mm × 260 mm × 60 mm)
Weight	Net 4 lbs (1.8 Kg) / Gross 5 lbs (2.3 Kg)
Mounting Surface	Building Wall or Structural Member

Ordering Information

Controller

Description	Product Number
TALON Small Building Network Manager with 6UI, 4DO and WEB interface	587-724

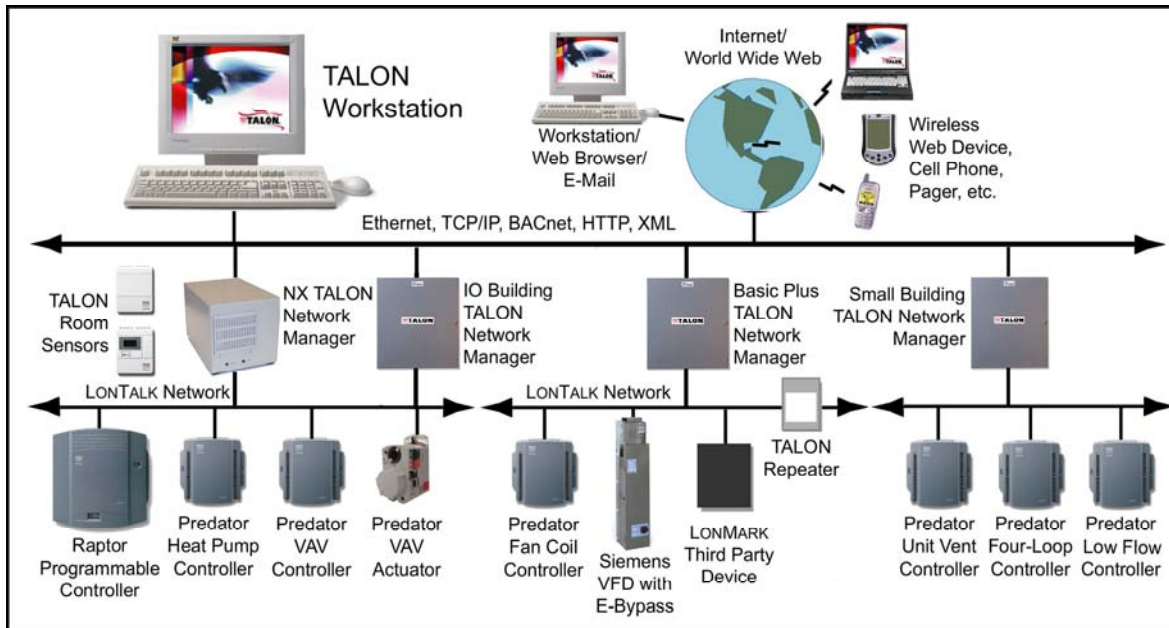
Option

Description	Product Number
Small Building Network Manager – Factory Installed Internal Modem (must be ordered with Small Building Network Mgr due to factory mounting requirement)	587-725

Miscellaneous and Repair Parts

Description	Product Number
Sm Bldg Mgr RS-485 connector, 3 position	587-741
Sm Bldg Mgr Input/Output connector, 6 position	587-742
Sm Bldg Mgr Resistor, 499 Ohm, 1%, 0.6w	587-743
Sm Bldg Mgr Battery harness with power connector	587-744
Sm Bldg Mgr RJ-45 Adapter to DB-9	587-745
Sm Bldg Mgr Silver satin cable, 4 foot	587-746
Sm Bldg Mgr Silver satin cable, 10 foot	587-747
Sm Bldg Mgr Silver satin cable, 25 foot	587-748
Replacement TALON Small Building Network Manager with 6UI, 4DO and WEB interface	R-587-724

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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