



**ARCHITECT AND ENGINEER SPECIFICATION**

**SECTION 13850 - DETECTION AND ALARM**

**T-Link TL250 / TL300**

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**T-Link TL250 /TL300**  
**SECTION 13850**  
**DETECTION AND ALARM**

**PART 1 – GENERAL**

**1.01 – SUMMARY**

1. SECTION INCLUDES
  - a) IP Communicator
  
2. ASSOCIATED SECTIONS
  - a) 16721 – Fire Alarm and Detection Systems
  - b) 16740 - Information Technology Systems
  - c) 16750 – Building Management/ Security/ Access Systems

**1.02 – LISTINGS**

- 1 UNDERWRITERS LABORATORY (UL)
  - a) UL1610 – Central Station Burglar-Alarm Units
  - b) UL864 – Control Units System for Fire-Protective Signalling System
  - c) UL1023 – Household Burglar Alarm System Units
  - d) UL985 – Household Fire Warning System Units
  - e) UL365 – Police Station Connected Burglar Alarm Units and Systems
  
- 2 UNDERWRITERS LABORATORY CANADA (ULC)
  - a) ULC-S304 – Central & Monitoring Station Burglar Alarm System Units
  - b) ULC-S527 – Control units for fire alarm systems
  - c) ULC-C639 – Central station fire protective signalling systems and services
  - d) ULC-S545 – Residential fire warning system control units
  - e) ULC-C1023 – Household burglar alarm system unit
  
- 3 EUROPEAN STANDARDS
  - a) EN50022 Class B – Digital Emissions
  - b) EN50130-4:1995 – Electromagnetic Immunity
  - c) EMC Directive 89/336/EEC
  - d) CISPR Class B
  
- 4 AUSTRALIAN STANDARDS
  - a) CISPR22 Class B – C-Tick compliance

### **1.03 – TL250 SYSTEM OVERVIEW**

1. The system shall be a Burglary/ Fire IP communicator with the following capabilities:
  - a) 4 on board zones
  - b) Expandable to 12 zones using the PC5108 zone expander
  - c) Local and remote upload/download
  - d) 2 on board programmable outputs
  - e) Local and remote flash upgradeable software
  - f) Compatibility with the DSC Maxsys 4020 and Power 864 control panels for full reporting
  - g) UL & ULC listed for residential and commercial applications

### **1.04 – TL300 SYSTEM OVERVIEW**

1. The system shall be a Burglary/Fire IP communicator with the following capabilities:
  - a) Local and remote upload/download
  - b) Local and remote flash upgradeable
  - c) Compatible with and manufacturer's panel that supports Ademco Contact ID format.
  - d) UL & ULC listed for residential and commercial applications.

## **PART 2 – PRODUCTS**

### **2.01 – SYSTEM PERFORMANCE**

#### **1 BASE IP COMMUNICATOR**

The IP communicator shall have a base capacity of 4 fully supervised and programmable zones with two general purpose programmable outputs.

#### **2 IP COMMUNICATOR ZONE EXPANSION**

The IP communicator shall be expandable to a maximum of 12 zones by adding a standard hardwired 8 zone module connected to the IP communicator via a supervised four-wire power/communication bus.

#### **3 FIRE MONITORING AND REPORTING**

The system shall be capable of being easily expanded to provide local fire alarm panel monitoring of alarm and trouble and reporting fire status. The IP communicator shall be fully supervised and automatically report network troubles locally.

#### 4 CENTRAL STATION REPORTING

The system shall provide high speed supervised communication to the central station using the network connection and be capable of being programmed to report up to two different IP addresses. The system shall also allow communication up to two e-mail addresses. The IP addresses shall be programmable for 'backup' communication should the primary IP address fail. The system shall report an account code for all messages related to it.

#### 5 SYSTEM SOFTWARE

The system shall come complete with all the software to implement every system feature and allow the addition of every expansion or functional module without changes or addition to the basic software. The system software shall be remote flash upgradeable.

#### 6 SYSTEM PROGRAMING

The system shall be fully programmable via a PC application software. The software shall provide the ability to fully program the system and read all current system programming and event buffer. The system shall provide a connector on board to allow local upload/download operation and shall be capable of being remotely programmed, over the network connection.

#### 7 IP LINE SECURITY AND ENCRYPTION

The system shall utilize 128 bit AES Encryption on all network communications. The IP communicator shall communicate along with every signal to the monitoring receiver, an embedded and encrypted hardware identification to be used as a means of hardware swap detection.

### 2.02 – MECHANICAL SPECIFICATIONS

Dimension 3.25" x 5.25"  
(83 mm x 133mm)

### 2.03 – ELECTRICAL SPECIFICATIONS

Input Voltage 12 VDC

Current Draw 250 mA  
(275 mA with PGM or PC 5108)

## **2.04 – ENVIRONMENTAL SPECIFICATIONS**

### **1 OPERATING ENVIRONMENT**

32 to 122°F (0 to 50°C)

5% - 93% RH non-condensing

## **PART 3 – EXECUTION**

### **3.01 – INSTALLATION**

- 1 The system shall be installed according to the manufacturer's installation instructions and recommendations.

### **3.02 – SYSTEM TESTING AND CERTIFICATION**

1. The system shall be tested in accordance to manufacturer's recommendations and standard industry practices.

**END OF SECTION**