

*Prism-IPX Systems and TPL Systems have Partnered to Develop the Industry's First, Fully Integrated, P25 Activated Siren Controller, the MPSC-1™*

# INDUSTRY'S FIRST P25 SIREN CONTROLLER

## Why P25?

**Reliability-** Systems are built with a high degree of redundancy ensuring message reliability.

**Professionally Monitored and Maintained-** Given the critical nature of Public Safety communications any system anomaly has to be addressed quickly to ensure minimum service interruption.

**Secure Communications-** Provides secure communications to protect against malicious intervention.

**Superior RF Coverage-** Administrators are continuously investing in improved RF coverage and services

## Why Consider the MPSC-1™ Controller?

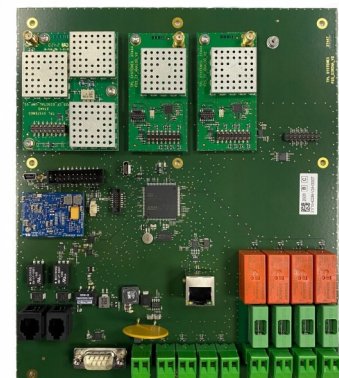
**Supports Multiple Systems-** In addition to P25, the MPSC-1™ supports legacy analog environments thereby allowing operation on a legacy system with a seamless transition to P25.

**Fully Integrated for High Reliability-** One PCB supports multiple systems

**Ease of P25 Integration-** Due to the MPSC-1™ software design, it will have no impact on P25 System resources.

**Status Reporting-** The MPSC-1™ supports Internet and 3/4G LTE interfaces which can be used for alternative activation control and /or operational status reporting.

**Upgradeable-** Its hardware modularity and Software Designed Radio architecture allows for ease of upgrade or redeployment.



## SPECIFICATIONS

### ELECTRICAL

DC Input Voltage Range: 9 - 48V Nominal

4 Outputs Rugged Contact Relays:

- AC: 16A @ 250VAC
- DC: 8A @ 24VDC

4 Inputs Dry Contacts :

- External Button for Siren Activation
- Power Supply Alarm
- User Input Source 1
- User Input Source 2

Board Connectors: RS485 , Ethernet RJ45, USB C, Antennas.

Operating Temperature : -22 to +158 Fahrenheit

### RADIO PROTOCOLS

#### ***P25 Module: Conventional/ Trunked Phase I & II***

Frequency Range: VHF/ UHF/ 763 - 776 MHz / 851 - 870 MHz

Sensitivity: -119dBm Typical

Rejection: 70dB

Selectivity: >60dB

Spurious: >70dB

Antenna Impedance: 50 Ohms

#### ***VHF/UHF Module: 2Tone/DTMF/POCSAG***

Frequency Range: 136 - 174 MHz / 434 - 470 MHz

Sensitivity: -119dBm Typical

Channel Spacing: 6,25kHz/12,5kHz/25kHz

Baud Rate: 512, 1200 or 2400

Antenna Impedance: 50 Ohms

#### ***3G/4G LTE Module:***

Category: Cat-1

Frequency Bands: B2, B4, B5, B12, B13, B14, B25, B26, B66, B71

Data Speed: Peak Download Rate 10Mbps

Peak Upload Rate 5Mbps

Planned Carrier: AT&T, Sprint, T-Mobile, Verizon

Regulatory : FCC, GCF, IC, PTCRB

### MILD STEEL BOX

Dimensions: H 14 in x W 12 in x D 6 in

Weight: Complete Box Wired 19 lbs. Board Only 2 lbs.

Door: Front Face, 120° Opening , Padlockable Quarter Turn Latch

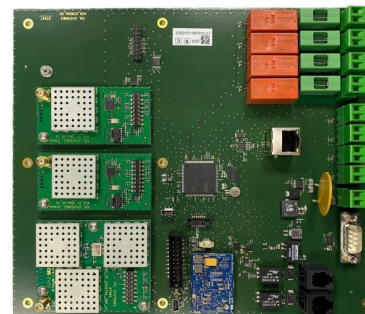
Standards: UL 864, UL 508A Type 3R, 4, 12 and 13

CSA Type 3R, 4, 12 and 13

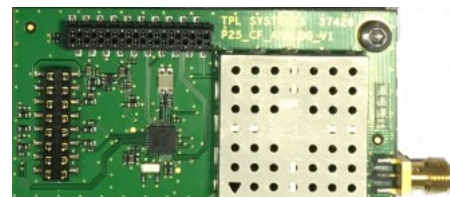
Complies with NEMA Type 3R, 4, 12 and 13

IEC 60529, IP66

Cable gland with N connectors on bottom of the cabinet for antennas



**Control Module**



**Option: 2Tone/DTMF/POCSAG  
VHF or UHF Module**



**Option: 3G/4G LTE Module**



**Option: Mild Steel Box**