

# OPTICOM™ SIGNAL CORE

Part Number: 76-1000-1432-0



Opticom Signal Core intersection equipment is intended for use with advanced Opticom priority control.

## SPECIFICATIONS

### Dimensions:

Opticom Signal Core:  
10.5 x 3 x 10 in (266 x 75 x 254 mm)

Power Adapter:  
10.5 x 3 x 10 in (266 x 75 x 254 mm)

Antenna Enclosure:  
8.5 x 3.6 x 1.1 in (216 x 93 x 30 mm)

### Power:

- Power Adapter:
- Input 89 to 240 VAC, 47 to 63 Hz uninterrupted (non GFCI required). Standard NEMA 5-15R or terminal block wiring supported.
  - Output: 48 VDC at 135W
  - UL and cUL certified

- Power Consumption:
- Max: 83W (includes 3 cameras)
  - Typical: 68W (includes 2 cameras)

- Hold Up:
- 5 second hold up for power loss events

### Operating Conditions:

Temperature: 34°C to +74°C (-29°F to +165°F)  
Humidity: 5% to 95% relative

### Certifications:

Compliant with NEMA TS-2 Environmental Requirements  
FCC Part 15, Subpart B, Class A  
PTCRB compliant

### Material:

Core Base & Lid: Aluminum  
Core Center Structure: PC/ABS  
Polycarbonate - ABS)

### Processor:

- NVIDIA Processor
- CPU: Quad-core ARM A57 @ 1.43 GHz
  - GPU: 128-core Maxwel

### Security Trusted Platform Module

- RSA Key Generation 2048 Bits
- RSA Signature and Encryption
- ECC 256
- AES 128
- SHA 256

### Memory:

Built-in 240GB solid-state

### Wireless Connectivity:

Cellular:  
LTE CAT4 bands B2, B4, B5, B12, B13, B14, B66, B71

Location Services: GPS, GLONASS

Wi-Fi:

- 802.11 a/b/g/n
- Wi-Fi functionality restricted to travel time data capture only

### I/O:

#### Ethernet Ports:

- 1 x 10/100/1000 Ethernet WAN port
- 2 x 10/100/1000 Ethernet LAN ports
- 3 x 10/100/1000 Ethernet LAN ports with PoE (support for 802.3af PoE and 802.3 at PoE + to a maximum of 50 @ across all three ports)

SDLC Port: 1x SDLC port (proprietary connector, DB15 adapter included)

Serial Ports: 2xEIA RS-232 over RJ45 interface (cable included)

USB Port: 1x USB 2.0 port

General Purpose I/O: 4x +5V open drain I/Os

Priority Control I/O: 8x NEMA compliant I/Os

### 5-in-1 Antenna:

#### Antenna:

- 2x MIMO LTE
- 2x MIMO Wi-Fi
- 1x GPS-GLNASS-Beidou

#### Enclosure:

- Permanent Screw Mount
- IP67 rated

### Contents:

- 1x Opticom Signal Core
- 1x Cable Kit
- 1x Power Supply
- 1x Antenna