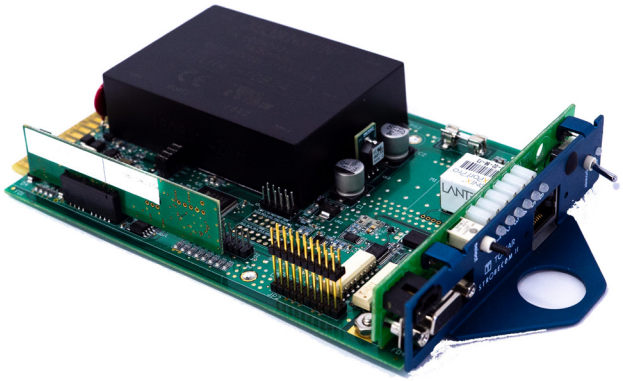
TOMAR
CLEARING THE WAY

STROBECOM II

OSPOCV2-2

OSPOC Version 2, two channel, optical signal processor with Integrated Confirmation, event logging, and Ethernet port



- INTEGRATED CONFIRMATION technology powers IC enabled DETOC series TOMAR Strobecom II detectors to be powered and controlled over the standard preemption detector cable. No additional power supplies, mounting, programming, or wiring required.

- TRUE CONFIRMATION, when combined with INTEGRATED CONFIRMATION is the only preemption system that provides real, closed-loop, visual feedback to vehicle drivers that the intersection is in preempt

- Active Reflection Suppression prevents cross street preemption due to reflected emitter energy. TOMAR's advanced digital signal processing eliminates this troublesome side effect making detector installation and setup far less critical.

- PLUG-and-PLAY firmware allows the addition of detectors and other accessories to the system without manual configuration. Buy only the equipment needed today and add more capability later saving precious funds.

- Expansion Port provides easy connection of the OSPOCV2-2 to other accessory modules

The model OSPOCV2-2 optical signal processor receives and decodes *GTT OPTICOM-brand coded emitter signals. Installed inside the traffic cabinet, the OSPOCV2-2 optical signal processor provides power for OSPOC series optical detectors, receives, decodes, and prioritizes emitter signals from the detectors, powers and activates Integrated Confirmation lights, logs preemption and priority control activity, and communicates with other traffic control devices.

Equipped with TOMAR's patented (US patent 8,742,946) INTEGRATED CONFIRMATION technology, the OSPOCV2-2 powers and controls the high intensity LED confirmation lights integrated into up to four DETOC series IC enabled detectors over standard preemption detector cable with no additional power supply, mounting, programming, or wiring. Integrated Confirmation equipped intersections provide visual feedback of intersection preemption to vehicle drivers and citizens for enhanced safety. When combined with TOMAR's True Confirmation feature the integrated LED confirmation lights provide real closed-loop visual feedback that the traffic controller is actually in preemption providing enhanced right-of-way.

The OSPOCV2-2 is delivered default programmed to respond on a first-come first-served basis to optical signals from vehicles within two signal bands. Emergency Band signals are typically emitted by emergency vehicles to effect a preemption of normal traffic control timing and are given the highest priority to allow rapid emergency vehicle response with enhanced safety. Transit Band signals are generally emitted by transit or other non-emergency municipal vehicles to effect a priority change for the vehicle's approach direction without necessarily interrupting traffic control timing. Up to 9,999 vehicles in each signal band can be individually identified and responded to.

Using a simple configuration program, the user can define up to 10 additional classes within each signal band with different priorities, detection ranges, and choices of actions, from simple vehicle logging to full traffic preemption and enhanced communication.

The onboard Ethernet port, and the ability to classify and announce multiple vehicles in real-time makes the OSPOCV2-2 an excellent intelligent vehicle sensor for ITS applications.

The OSPOCV2-2 OSP is compatible with NEMA TS-1, TS-2, and CA/NY 170 and 2070 controllers, and meets all NEMA and Caltrans environmental requirements. The OSPOCV2-2 plugs directly into standard preemption card slots and does not use internal 24VDC cabinet power. For controllers without a preemption card slot the TOMAR 1881 rack provides the necessary hardware and harnessing to allow simple connection to detectors and controller inputs.

TOMAR
CLEARING THE WAY

STROBECOM II

Specifications

Item	Description
Signal	The OSPOCV2-2 shall be capable of receiving, decoding, and prioritizing OPTICOM-brand formatted Emergency and Transit priority signals transmitted by all TOMAR and competitive emitters. The OSPOCV2-2 shall be software configurable to accept or reject older non-identifying optical signals. Classes 0-9 and codes 0-999 in each signal band shall be
Signal Acquisition Time	Typical signal acquisition time shall be approximately 2.5 seconds. Acquisition time will vary depending on the number of signals present simultaneously and on the density of optical noise.
Range	2500 feet maximum adjustable down to 200 feet in 255 steps for each signal band and each approach.
Priority Determination	The OSPOCV2-2 shall be delivered with default priority grouping, responding on a first-come, first-served basis to signals within each signal band. Signals in the Emergency signal band shall be given priority over signals in the transit signal band. The user shall be able to, optionally, define additional priority classes within each signal band. Up to 10 priority groups within each signal band shall be definable.
Event Logging	The OSPOCV2-2 shall log all valid and invalid preemption events including the time, date, and duration of the event. The logging capacity of the OSPOCV2-2 shall be 14,000 events minimum. When at capacity, the oldest events shall be discarded when newer events are received. The stored logs shall be downloadable via Ethernet port.
Output Signals	The OSPOCV2-2 shall provide two optically-isolated output channels for placing NEMA standard signal level calls on traffic controller preempt inputs.
Input Signals	The OSPOCV2-2 shall have two optically-isolated inputs for connecting to traffic controller preempt status outputs.
Control Timers	Each output channel shall be equipped with three control timers described as: MAX CALL: Sets the maximum time a preempt call is allowed to be active CALL EXTENTION: Sets the time a call remains placed after a valid optical signal terminates CALL DELAY: Sets the time a valid optical signal must be pending before the assertion of a preempt call to the controller.
Confirmation Lights	The OSPOCV2-2 shall be capable of powering and operating up to two TOMAR DETOC series Integrated Confirmation enabled detectors over up to 600' of preemption detector cable per IC enabled detector.
Maximum Detectors	Up to two DETOC series IC enabled detectors (maximum of four LED confirmation lights total) plus four additional non-IC enabled detectors
Electrical Requirements	120/240VAC 50/60Hz
Temperature Range	-40 to +75 degrees C
Transient Protection	Input power shall be MOV protected from AC mains transients. Detector inputs shall be TVS protected from electrical transients.
Fusing	A ½ amp fuse shall be included in the input power connection to protect cabinet wiring

Ordering Info

Catalog Number	Description
OSPOCV2-2	Two channel Optical Signal Processor with INTEGRATED CONFIRMATION, event logging, and Ethernet port.

TRUE 10 YEAR WARRANTY!

10 year warranty covers the OSPOC Series and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

NOTICE: The sale of these items are restricted to state and local governments and to be authorized distributors only.

STROBECOM II

OSPOCWV2-2

OSPOC Version 2, two channel, wide panel, optical signal processor with Integrated Confirmation, event logging, and Ethernet port

• INTEGRATED CONFIRMATION technology powers IC enabled DETOC series TOMAR Strobecom II detectors to be powered and controlled over the standard preemption detector cable. No additional power supplies, mounting, programming, or wiring required.

• TRUE CONFIRMATION, when combined with INTEGRATED CONFIRMATION is the only preemption system that provides real, closed-loop, visual feedback to vehicle drivers that the intersection is in preempt

• Active Reflection Suppression prevents cross street preemption due to reflected emitter energy. TOMAR's advanced digital signal processing eliminates this troublesome side effect making detector installation and setup far less critical.

• PLUG-and-PLAY firmware allows the addition of detectors and other accessories to the system without manual configuration. Buy only the equipment needed today and add more capability later saving precious funds.

• Expansion Port provides easy connection of the OSPOCWV2-2 to other accessory modules

The model OSPOCWV2-2 wide panel optical signal processor receives and decodes *GTT OPTICOM-brand coded emitter signals. Installed inside the traffic cabinet, the OSPOCWV2-2 optical signal processor provides power for OSPOC series optical detectors, receives, decodes, and prioritizes emitter signals from the detectors, powers and activates Integrated Confirmation lights, logs preemption and priority control activity, and communicates with other traffic control devices.

Equipped with TOMAR's patented (US patent 8,742,946) INTEGRATED CONFIRMATION technology, the OSPOCWV2-2 powers and controls the high intensity LED confirmation lights integrated into up to four DETOC series IC enabled detectors over standard preemption detector cable with no additional power supply, mounting, programming, or wiring. Integrated Confirmation equipped intersections provide visual feedback of intersection preemption to vehicle drivers and citizens for enhanced safety. When combined with TOMAR's True Confirmation feature the integrated LED confirmation lights provide real closed-loop visual feedback that the traffic controller is actually in preemption providing enhanced right-of-way.

The OSPOCWV2-2 is delivered default programmed to respond on a first-come first-served basis to optical signals from vehicles within two signal bands. Emergency Band signals are typically emitted by emergency vehicles to effect a preemption of normal traffic control timing and are given the highest priority to allow rapid emergency vehicle response with enhanced safety. Transit Band signals are generally emitted by transit or other non-emergency municipal vehicles to effect a priority change for the vehicle's approach direction without necessarily interrupting traffic control timing. Up to 9,999 vehicles in each signal band can be individually identified and responded to.

Using a simple configuration program, the user can define up to 10 additional classes within each signal band with different priorities, detection ranges, and choices of actions, from simple vehicle logging to full traffic preemption and enhanced communication.

The onboard Ethernet port, and the ability to classify and announce multiple vehicles in real-time makes the OSPOCWV2-2 an excellent intelligent vehicle sensor for ITS applications.

The OSPOCWV2-2 OSP is compatible with NEMA TS-1, TS-2, and CA/NY 170 and 2070 controllers, and meets all NEMA and Caltrans environmental requirements. The OSPOCWV2-2 plugs directly into standard preemption card slots and does not use internal 24VDC cabinet power. For controllers without a preemption card slot the TOMAR 1881 rack provides the necessary hardware and harnessing to allow simple connection to detectors and controller inputs.

TOMAR

STROBECOM II

Specifications

Item	Description
Signal	The OSPOCWV2-2 shall be capable of receiving, decoding, and prioritizing OPTICOM-brand formatted Emergency and Transit priority signals transmitted by all TOMAR and competitive emitters. The OSPOCWV2-2 shall be software configurable to accept or reject older non-identifying optical signals. Classes 0-9 and codes 0-999 in each signal band shall be individually identifiable.
Signal Acquisition Time	Typical signal acquisition time shall be approximately 2.5 seconds. Acquisition time will vary depending on the number of signals present simultaneously and on the density of optical noise.
Range	Up to 2500 feet of detection or more that can be adjusted down to 200 feet.
Priority Determination	The OSPOCWV2-2 shall be delivered with default priority grouping, responding on a first-come, first-served basis to signals within each signal band. Signals in the Emergency signal band shall be given priority over signals in the transit signal band. The user shall be able to, optionally, define additional priority classes within each signal band. Up to 10 priority groups within each signal band shall be definable.
Event Logging	The OSPOCWV2-2 shall log all valid and invalid preemption events including the time, date, and duration of the event. The logging capacity of the OSPOCWV2-2 shall be 14,000 events minimum. When at capacity, the oldest events shall be discarded when newer events are received. The stored logs shall be downloadable via Ethernet port.
Output Signals	The OSPOCWV2-2 shall provide two optically-isolated output channels for placing NEMA standard signal level calls on traffic controller preempt inputs.
Input Signals	The OSPOCWV2-2 shall have two optically-isolated inputs for connecting to traffic controller preempt status outputs.
Control Timers	Each output channel shall be equipped with three control timers described as: MAX CALL: Sets the maximum time a preempt call is allowed to be active CALL EXTENTION: Sets the time a call remains placed after a valid optical signal terminates CALL DELAY: Sets the time a valid optical signal must be pending before the assertion of a preempt call to the controller.
Confirmation Lights	The OSPOCWV2-2 shall be capable of powering and operating up to two TOMAR DETOC series Integrated Confirmation enabled detectors over up to 600' of preemption detector cable per IC enabled detector.
Maximum Detectors	Up to two DETOC series IC enabled detectors (maximum of four LED confirmation lights total) plus four additional non-IC enabled detectors
Electrical Requirements	120/240VAC 50/60Hz
Temperature Range	-40 to +75 degrees C
Transient Protection	Input power shall be MOV protected from AC mains transients. Detector inputs shall be TVS protected from electrical transients.
Fusing	A ½ amp fuse shall be included in the input power connection to protect cabinet wiring

Ordering Info

Catalog Number	Description
OSPOCWV2-2	Two channel wide panel Optical Signal Processor with INTEGRATED CONFIRMATION, event logging, and Ethernet port.

TRUE 10 YEAR WARRANTY!

10 year warranty covers the OSPOC Series and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

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STROBECOM II

OSPOCV2-4

OSPOC Version 2, four channel, optical signal processor with Integrated Confirmation, event logging, and Ethernet port

• INTEGRATED CONFIRMATION technology powers IC enabled DETOC series TOMAR Strobecom II detectors to be powered and controlled over the standard preemption detector cable. No additional power supplies, mounting, programming, or wiring required.

•TRUE CONFIRMATION, when combined with INTEGRATED CONFIRMATION is the only preemption system that provides real, closed-loop, visual feedback to vehicle drivers that the intersection is in preempt

•Active Reflection Suppression prevents cross street preemption due to reflected emitter energy. TOMAR's advanced digital signal processing eliminates this troublesome side effect making detector installation and setup far less critical.

•PLUG-and-PLAY firmware allows the addition of detectors and other accessories to the system without manual configuration. Buy only the equipment needed today and add more capability later saving precious funds.

•Expansion Port provides easy connection of the OSPOCV2-4 to other accessory modules

The model OSPOCV2-4 optical signal processor receives and decodes *GTT OPTICOM-brand coded emitter signals. Installed inside the traffic cabinet, the OSPOCV2-4 optical signal processor provides power for OSPOC series optical detectors, receives, decodes, and prioritizes emitter signals from the detectors, powers and activates Integrated Confirmation lights, logs preemption and priority control activity, and communicates with other traffic control devices.

Equipped with TOMAR's patented (US patent 8,742,946) INTEGRATED CONFIRMATION technology, the OSPOCV2-4 powers and controls the high intensity LED confirmation lights integrated into up to four DETOC series IC enabled detectors over standard preemption detector cable with no additional power supply, mounting, programming, or wiring. Integrated Confirmation equipped intersections provide visual feedback of intersection preemption to vehicle drivers and citizens for enhanced safety. When combined with TOMAR's True Confirmation feature the integrated LED confirmation lights provide real closed-loop visual feedback that the traffic controller is actually in preemption providing enhanced right-of-way.

The OSPOCV2-4 is delivered default programmed to respond on a first-come first-served basis to optical signals from vehicles within two signal bands. Emergency Band signals are typically emitted by emergency vehicles to effect a preemption of normal traffic control timing and are given the highest priority to allow rapid emergency vehicle response with enhanced safety. Transit Band signals are generally emitted by transit or other non-emergency municipal vehicles to effect a priority change for the vehicle's approach direction without necessarily interrupting traffic control timing. Up to 9,999 vehicles in each signal band can be individually identified and responded to.

Using a simple configuration program, the user can define up to 10 additional classes within each signal band with different priorities, detection ranges, and choices of actions, from simple vehicle logging to full traffic preemption and enhanced communication.

The onboard Ethernet port, and the ability to classify and announce multiple vehicles in real-time makes the OSPOCV2-4 an excellent intelligent vehicle sensor for ITS applications.

The OSPOCV2-4 OSP is compatible with NEMA TS-1, TS-2, and CA/NY 170 and 2070 controllers, and meets all NEMA and Caltrans environmental requirements. The OSPOCV2-4 plugs directly into standard preemption card slots and does not use internal 24VDC cabinet power. For controllers without a preemption card slot the TOMAR 1881 rack provides the necessary hardware and harnessing to allow simple connection to detectors and controller inputs.

TOMAR

STROBECOM II

Specifications

Item	Description
Signal	The OSPOCV2-4 shall be capable of receiving, decoding, and prioritizing OPTICOM-brand formatted Emergency and Transit priority signals transmitted by all TOMAR and competitive emitters. The OSPOCV2-4 shall be software configurable to accept or reject older non-identifying optical signals. Classes 0-9 and codes 0-999 in each signal band shall be individually identifiable.
Signal Acquisition Time	Typical signal acquisition time shall be approximately 2.5 seconds. Acquisition time will vary depending on the number of signals present simultaneously and on the density of optical noise.
Range	2500 feet maximum adjustable down to 200 feet in 255 steps for each signal band and each approach.
Priority Determination	The OSPOCV2-4 shall be delivered with default priority grouping, responding on a first-come, first-served basis to signals within each signal band. Signals in the Emergency signal band shall be given priority over signals in the transit signal band. The user shall be able to, optionally, define additional priority classes within each signal band. Up to 10 priority groups within each signal band shall be definable.
Event Logging	The OSPOCV2-4 shall log all valid and invalid preemption events including the time, date, and duration of the event. The logging capacity of the OSPOCV2-4 shall be 14,000 events minimum. When at capacity, the oldest events shall be discarded when newer events are received. The stored logs shall be downloadable via Ethernet port.
Output Signals	The OSPOCV2-4 shall provide four optically-isolated output channels for placing NEMA standard signal level calls on traffic controller preempt inputs.
Input Signals	The OSPOCV2-4 shall have four optically-isolated inputs for connecting to traffic controller preempt status outputs.
Control Timers	Each output channel shall be equipped with three control timers described as: MAX CALL: Sets the maximum time a preempt call is allowed to be active CALL EXTENTION: Sets the time a call remains placed after a valid optical signal terminates CALL DELAY: Sets the time a valid optical signal must be pending before the assertion of a preempt call to the controller.
Confirmation Lights	The OSPOCV2-4 shall be capable of powering and operating up to four TOMAR DETOC series Integrated Confirmation enabled detectors over up to 600' of preemption detector cable per IC enabled detector.
Maximum Detectors	Up to four DETOC series IC enabled detectors (maximum of four LED confirmation lights total) plus four additional non-IC enabled detectors
Electrical Requirements	120/240VAC 50/60Hz
Temperature Range	-40 to +75 degrees C
Transient Protection	Input power shall be MOV protected from AC mains transients. Detector inputs shall be TVS protected from electrical transients.
Fusing	A ½ amp fuse shall be included in the input power connection to protect cabinet wiring

Ordering Info

Catalog Number	Description
OSPOCV2-4	Four channel Optical Signal Processor with INTEGRATED CONFIRMATION, event logging, and Ethernet port.

TRUE 10 YEAR WARRANTY!

10 year warranty covers the OSPOC Series and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

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*OPTICOM® and GTT are trademarks of Global Traffic Technologies, LLC and are not affiliated with Tomar Electronics, Inc. or its products.

STROBECOM II

OSPOCWV2-4

OSPOC Version 2, four channel, wide panel, optical signal processor with Integrated Confirmation, event logging, and Ethernet port

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• Expansion Port provides easy connection of the OSPOCWV2-4 to other accessory modules

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STROBECOM II

Specifications

Item	Description
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Signal Acquisition Time	Typical signal acquisition time shall be approximately 2.5 seconds. Acquisition time will vary depending on the number of signals present simultaneously and on the density of optical noise.
Range	Up to 2500 feet of detection or more that can be adjusted down to 200 feet.
Priority Determination	The OSPOCWV2-4 shall be delivered with default priority grouping, responding on a first-come, first-served basis to signals within each signal band. Signals in the Emergency signal band shall be given priority over signals in the transit signal band. The user shall be able to, optionally, define additional priority classes within each signal band. Up to 10 priority groups within each signal band shall be definable.
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Confirmation Lights	The OSPOCWV2-4 shall be capable of powering and operating up to four TOMAR DETOC series Integrated Confirmation enabled detectors over up to 600' of preemption detector cable per IC enabled detector.
Maximum Detectors	Up to four DETOC series IC enabled detectors (maximum of four LED confirmation lights total) plus four additional non-IC enabled detectors
Electrical Requirements	120/240VAC 50/60Hz
Temperature Range	-40 to +75 degrees C
Transient Protection	Input power shall be MOV protected from AC mains transients. Detector inputs shall be TVS protected from electrical transients.
Fusing	A ½ amp fuse shall be included in the input power connection to protect cabinet wiring

Ordering Info

Catalog Number	Description
OSPOCWV2-4	Four channel wide panel Optical Signal Processor with INTEGRATED CONFIRMATION, event logging, and Ethernet port.

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