

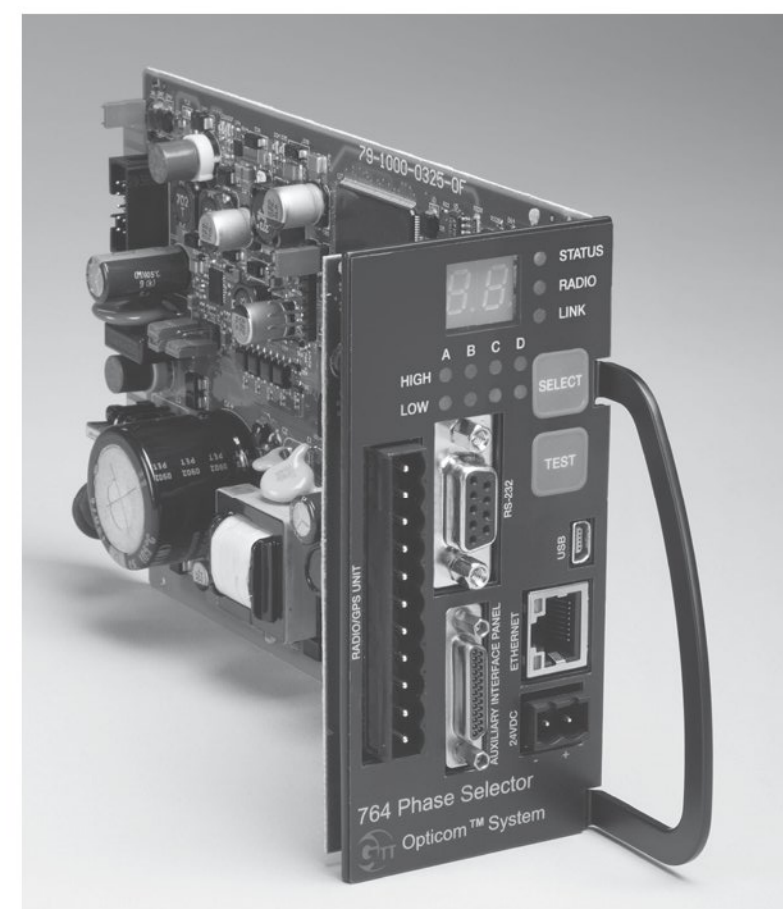
Approved

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STATE OF VERMONT
AGENCY OF TRANSPORTATION

OPTICOM™ PRIORITY CONTROL SYSTEM OPTICOM™ MODEL 764 MULTIMODE PHASE SELECTOR

OPTICOM™ SYSTEM COMPONENT FOR ENVIRONMENTS WITH INFRARED
AND GPS TECHNOLOGY



Description

The Opticom™ Model 764 Multimode Phase Selector is a plug-in, four-channel, dual-priority, multimode encoded signal device designed for use with both Opticom™ infrared system emitters and detectors and Opticom™ GPS radio/GPS intersection units and vehicle equipment. It can be installed directly into the input files of Type 170 traffic controllers equipped with priority phase selection software and in virtually any other traffic controller equipped with priority phase selection inputs and related software. Phase selectors are powered from AC mains or 24 VDC and contain their own internal power supply to support Opticom™ infrared system detectors and Opticom™ GPS radio/GPS units.

The Opticom™ Model 764 may be used in IR only applications, GPS only applications, or IR and GPS applications simultaneously.

The Opticom™ Model 760 Card Rack is required when input file space is not available. When used in GPS only mode, the Model 1040 card rack may also be used.

Opticom™ Model 764 recognizes and discriminates among three distinct Opticom™ IR emitter frequency rates via Opticom™ detectors: high priority, low priority and probe priority. Within each of these three frequency rates, the phase selectors further discriminate among 10 classes of vehicle identification codes, with 1,000 individual vehicle codes per class — 10,000 total per frequency rate. The Opticom™ Model 764 also recognizes three different priority levels transmitted by Opticom™ GPS vehicle equipment: high priority, low priority and probe priority. Within each of these three priority levels, the phase selectors further discriminate among 254 agency IDs, 15 classes of vehicle identification codes, with 10,000 individual vehicle codes per class — for more than 38 million total per priority level.

Opticom™ Model 764 Phase Selector internally records each system activation. Each entry contains:

- Intersection name
- Date and time of the activity
- Vehicle class code of the activating vehicle
- Activating vehicle's ID number
- Agency ID (GPS only)
- Channel called
- Priority of the activity
- Final green signal indications displayed at the end of the call
- Time spent in the final greens
- Duration of the activation
- If preempt has been requested and reason if not
- Turn signal status at the end of the call (GPS only)
- Entry, exit and average speed (GPS only)
- Relative priority level

Global Traffic Technologies, LLC
(GTT), formed in 2007 from
3M's pioneering Intelligent
Transportation Systems business,
is the manufacturer of Opticom™
priority control systems and
Canoga™ traffic sensing systems.