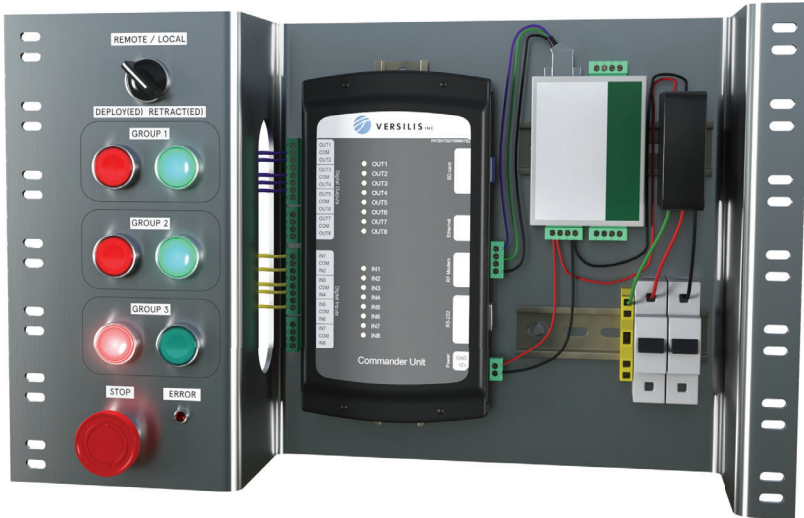


COMMANDER ASSEMBLY

PRODUCT SHEET



- Assembly used for local and remote control of various ITS Field Devices
- Pre-assembled and pre-configured
- Rackmount assembly-ready for standard 19-inch rack
- ITS Integration Simplified

COMMANDER ASSEMBLY OVERVIEW

The Commander Assembly is part of the Versilis SwiftGate System's Communication Hardware Components. Mounted inside a roadside ITS 19-inch rack, this simple assembly allows local and remote control of ITS Field Devices part of a Swiftgate System. The ITS Field Devices typically include advance warning signs, such as SwiftSign, Lane Control Signs, Blank Out Signs, Flashing Beacons, or Traffic Lights, as well as one or a series of Horizontal or Vertical SwiftGates used for access control at a specific location.

While this Assembly can vary slightly from one project to the next, it typically includes the following components:

- Versilis Commander
- Safety switch to alternate between local and remote control
- Push Buttons for local operation:
 - 6 X push buttons for local operation of 3 groups of devices (with lighting to provide action confirmation)
 - 1 X emergency stop push button
- Error LED (flashes when error is active)
- Communication converter(s)
- Power Supply
- Above components mounted on a 12" high X 19"5/8 wide rackmount plate using 7 rack units (7U)

THE COMMANDER

The Versilis Commander, key component of the assembly, is the PLC interface of the SwiftGate System. Designed to control and monitor multiple ITS Field Devices, the Commander is a powerful tool acting as a multifunction control system and a data collector.



APPLICATIONS

- Managed lane access control
- Reversible lane access control
- Tunnel/Bridge emergency/maintenance closure
- Event traffic management
- On-ramp and off-ramp control
- Median crossover management
- Work zone repetitive lane closures
- Other similar access control applications

**SAFETY
PERFORMANCE
EFFICIENCY**

INCREASED HIGHWAY OPERATION EFFICIENCY

COMMANDER ASSEMBLY

PRODUCT SHEET

TECHNICAL FEATURES

ITS INTEGRATION SIMPLIFIED

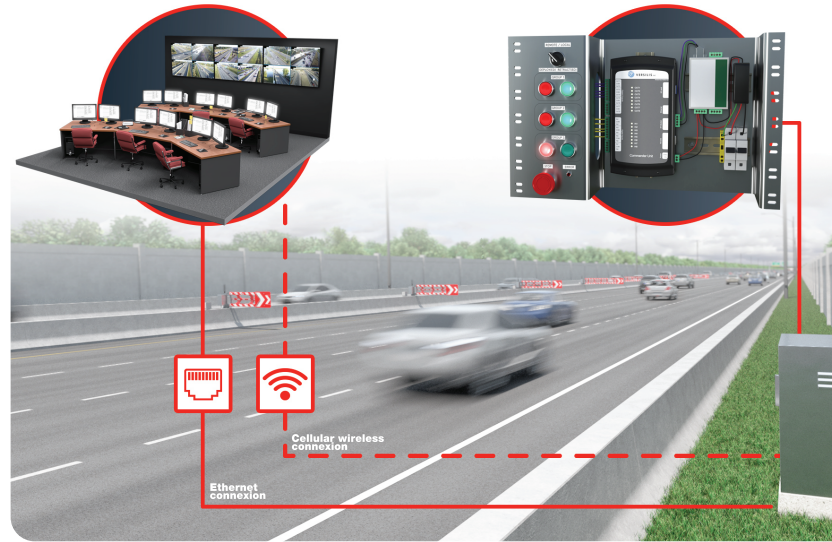
The commander facilitates ITS Integration:

- Programmed to send commands to groups of ITS Field Devices, thus preventing the need for multiple I/O
- Used as a sequencer and reports back group status
- Offers continuous system monitoring, reporting detailed ITS Field Device information
- Hosts a Web Page interface to allow simple remote control and monitoring of ITS Field Devices
- Offers a Standard NTCIP interface to allow remote control and monitoring of ITS Field Devices using a Traffic Management Center Software (Versilis ITS Central, SCADA System, or other)
- Provides the ability to easily add and sequence a new ITS Field Device to an existing system, for increased flexibility
- Built-in feature to allow synchronization of SwiftGate LED lights, translating to better visual impact, particularly important on high-speed facilities
- All events logged for investigation and troubleshooting

SEQUENCER

- The Versilis Commander can control a total of 31 ITS Field Devices, which can be separated into 3 groups (Note 1)
- The sequencer controls and monitors these groups
- The sequencer utilizes the communication port to control and monitor the ITS Field Devices
- The sequencer can Deploy/Retract (or Turn ON/OFF) a group of ITS Field Devices simultaneously or progressively
- Each group can be configured independently

Note 1: A typical highway access control solution includes a series of advanced warning signs (group 1), followed by a series of variable length gates to create the lane closure taper (group 2), followed by a series of full length gates to maintain the closure over the desired distance (group 3). Other types of applications are configured according to project requirements.



ETHERNET PORT

The Ethernet port is an interface port for software applications. The commander unit provides 2 protocols:

- HTTP protocol for Web user interface
- SNMPv1 protocol for NTCIP interface

8 DIGITAL INPUTS + 8 DIGITAL OUTPUTS

Digital IOs are available to accommodate PLC interconnection if required (optional)

SD CARD

The SD card has 2 functions:

- Logging of events
- Firmware and/or Configuration update

COMMUNICATION PORT

The communication port is used to send commands to ITS Field Devices. This communication port is an RS-232 interface which can be used for:

- Versilis Modem-Antenna to provide an RF Solution
- RS-485 converter to provide a wired solution (as shown)
- Fiber optic converter to provide a wired solution
- The above solutions can be mixed as required

ABOUT VERSILIS

Versilis takes pride in developing quality innovations and providing exceptional service. Everything we do is governed by three principles: Quality, Safety and Efficiency. In an effort to meet the highest quality standards and respond to client's evolving requirements, Versilis engineers work hard at continuous product improvement. For this reason, Versilis reserves the right to modify minor technical details listed in this product information sheet without warning.

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