Communication Modules

[Communications processor modules that extend the power and function of the Vantage video detection system]

The Vantage® Access and eAccess communications modules provide a central point for remote access to the Vantage family of Edge2 processor and channel extension modules. Both the Access and eAccess modules allow a traffic management center to access the Vantage equipment remotely over a variety of communications links to monitor, diagnose and re-configure the operation of the video detection system.

The Access communications module includes a built in hardened 56K modem offering a simple and convenient way to access the video detection system remotely via standard PSTN telephone lines. Additionally, when used with the Vantage Remote Access Software (VRAS) Windows application provides an elegant interface to access, monitor and configure multiple configurations of Edge2 equipment. The Access module also provides snapshots of the camera view and video detection overlays allowing the traffic management center to observe the scene remotely.

The eAccess communications module extends the power of wide area networking to include direct connection to Ethernet networks. The eAccess module includes a 10/100Base-T Ethernet port enabling remote access to the Edge2 equipment via an 802.3 compliant TCP/IP interface. With the faster data rate, the module offers streaming video of the camera scene as well as simplified operation at the traffic management center through the use of a PC-enabled Internet Explorer browser.

Both communications modules attach to up to 4 x Edge2 processor modules and use standard interface receptacles for mouse (USB), modem (RJ11), Ethernet (RJ45) and Edge2 inter-module communications (RJ45). Using industry-standards based connections and interfaces, the Access and eAccess communications modules integrate easily and quickly into your existing wide area network infrastructure.

Installation and Configuration

Both the Access and eAccess communications modules install into a slot of an existing detector rack. Connection to the Edge2 processor modules is via standard CAT5 patch cords and coaxial and or video expansion cables (supplied with the product). Connection to PSTN or wide area networks is performed using standard RJ11 or CAT5 patch cords.

Remote access is performed over PSTN (Access) or cable modem, DSL modem or local networks (eAccess). The Vantage VRAS application is used to connect to an Access module and an Internet Explorer browser or VRAS application is used to access the eAccess module. All basic setup function can be performed remotely while providing monitoring and troubleshooting routines.

Features

- Plugs into any standard rack that provides 12 or 24 volts DC.
- Accommodates up to 4 video source inputs.
- Accommodates up to 4 expansion devices.
- USB and trackball mouse support.
- EIA-232 serial communications port.
- High intensity LED status indicators.
- Access - Built in industrial hardened 56K modem
- eAccess - 10/100Base-T Ethernet support
- eAccess - Web browser setup and support
- eAccess - MPEG2 video streaming

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Benefits

- Plug and play operation enables use of existing detector rack thereby extending the life of the controller and cabinet equipment.
- Simple to use interface reduces training time and improves productivity levels.
- Ease of set up and remote access reduces time and cost of installation and maintenance of equipment
- Expandable and modular system allows for optimal configuration that helps to reduce cost while preserving room for incremental growth.

Typical Applications

- Intersection flow control
- Ramp metering
- Traffic data collection
- Bicycle detection
- Traveler information system input
- Temporary and construction zone vehicle detection replacement
- Moving or wrong way motion detection
- Automatic Incident Detection (AID) in tunnels and on bridges

Vantage Family Products

- Machine Vision Processor modules
- Input and Output Channel extension modules
- Flexible and expandable detector rack systems
- High resolution cameras optimized for traffic applications

Technical Specifications

Access

Connections	4 BNC connectors for video input (via DB15 spider cable)
	4 RJ45 Edge2 Extension Module interface
	1 RJ11 Modem connector
	1 EIA-232 local access port
	USB Mouse port
	1 BNC composite video out connector
Mechanical	
Size	7.0" long, 4.5" high, 2.3" wide (17.8 cm long, 11.4 cm high, 5.8 cm wide)
Weight	0.64 lbs. (0.29 kg)
Environment	
Temperature	-35° F to +165° F (-37° C to +74° C)
Humidity	0% to 95% non-condensing
Vibration	0.5G, 3 axes, 5-30 Hz
Shock	10G in all 3 axes
Electrical	12/24 VDC (500/260 milliamps)

eAccess

Connections	4 BNC connectors for video input (via DB15 spider cable)
	4 RJ45 Edge2 Extension Module interface
	1 RJ45 Ethernet connector
	1 EIA-232 local access port
	USB Mouse port
	1 BNC composite video out connector
Mechanical	
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