SCOOT Gemini

NTCIP Controller Adaptor

The Siemens SCOOT Gemini outstation is a powerful new platform for use with state-of-the-art SCOOT Urban Traffic Control (UTC) systems. Using the latest ARM processor technology, this compact unit enables deployment of SCOOT in non-Siemens traffic controllers using NTCIP industry standards.

Full support for NTCIP standards

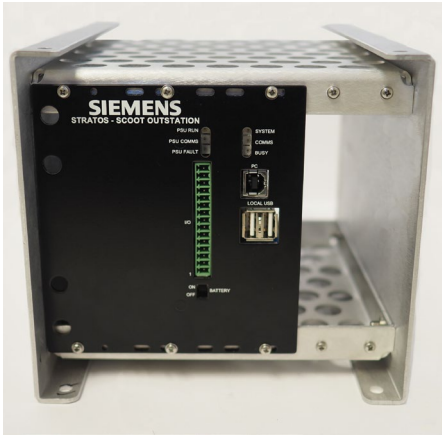
The Gemini fully supports the conversion of NTCIP to the latest UG405 protocol adopted by SCOOT, which timestamps all data exchanged between the UTC/SCOOT and the Gemini outstation, ensuring a highly tolerant solution even when communications are of a poor quality.

The unit exchanges data with a traffic controller over the IP interface using SNMP, taking data objects available in NTCIP 1202 v02.18.

This is of benefit where variable latency and intermittent data loss are likely to be encountered, for example, where IP-based wireless solutions are employed.

Web-based user interface

The SCOOT Gemini implements a fully web-based user-friendly interface that enables users to interact with the unit efficiently with minimal training. The web presentation is identical whether accessed either locally or via the central system. Allowing easy access to all outstation features remotely, costly site visits can be avoided.



usa.siemens.com/intelligenttraffic

Third-party controller support

In addition to supporting Siemens m50 and m60 controllers, the SCOOT Gemini outstation can also communicate to third-party IP-based controllers using a standard IP-based CAT5 Ethernet connection, enabling a SCOOT system deployment using non-Siemens controllers.

Utilizing the Gemini as the NTCIP bridge between the controller cabinet and the SCOOT/UTC system using standard IP-based networks allows agencies to leverage existing infrastructure while making use of a simple set up that reduces deployment time and effort to a minimum.

Mounting options

The Gemini comes in a shelf-mounted 7" 3U enclosure with blanking plates to allow it to easily fit into a traffic controller cabinet. The outstation unit can also be secured to the underside of a suitable shelf, thus providing traffic engineers further options for cabinet mounting as required.

Technical specifications

Communications

- Two 10/100 Ethernet interfaces
- Four USB host ports
- One USB device port (USB Handset)
- One RS232 Modem port
- One RS232 TR0141 / TR2500 user port
- RS232 handset port provided by adaptor cable

Protocol support

- NTCIP 1202, v02.18 (traffic controller)
- UG405 (UTC/SCOOT)

Inputs and outputs

- Switchable 24V / 1A protected modem / router power output
- External battery backup input
- LV or ELV lamp supply monitor input
- Digital inputs: 8
- Outputs: 2

Other facilities

- Controller monitor and status of phase servicing
- Timing sources: internal crystal, NTP network time server, GPS clock
- Web-based user interface
- USB Handset port or optional adaptor for RS23
- Mapping of 128 physical controller inputs to logical SCOOT detectors (including pre-emption support)

Physical size and weight

- 120mm (W) x 130mm (H) x 250mm (exc. enclosure)
- 1.6 Kg

Environmental performance

- Operating temperature range: -34°C to +74°C
- Operating humidity range: up to 95% non-condensing
- Material / finish: plated mild steel chassis
- Powder coated aluminum front panels

Controllers supported

- Siemens m50 (SEPAC 4.57h, OS-9)
- Siemens m60 (SEPAC 5.0 or greater, Linux)
- Econolite Cobalt (2.65.1, Linux)
- Econolite ASC/3 (2.65.1, Linux)
- Intelight X-3 (MaxTime 1.9.5, Linux)

Ordering information

Part Number	Description
667/1/52250/820	SCOOT Gemini (NEMA OTU 7" rack) with PSU, CPU and 2 blanking panels, no battery. Suitable for IP-based NTCIP deployments.

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