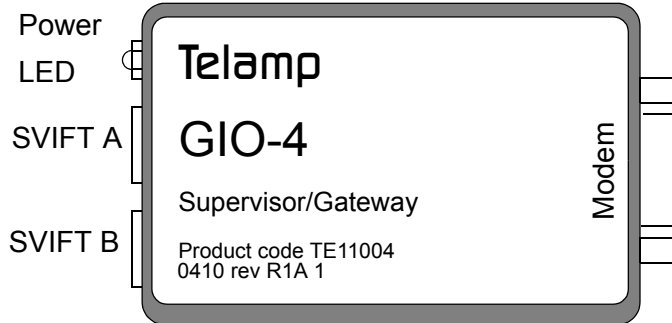


Highly configurable SVIFT supervisor/gateway unit for use with modem.

- Supervises either a SVIFT loop or two individual chains and reports A or B alarms as SMS messages.
- Configurable gateway functionality for incoming calls for full external supervision and control.
- Configurable control of LEDs on unit causing alarm.
- Powered either via jack or SVIFT signal interface - typ 15 mA consumption.
- Rich variety of mounting options: DIN-rail, 19" rack, wall...
- Plus all the distinctive SVIFT features: self configured relative addressing, low cost daisy chain bus, open protocol, redundancy capability.



GIO4 is a supervisor for SVIFT equipment, indicating status in any of the connected units by sending an SMS in case of alarm. The SMS contains textual information on: alarm level (A or B), node name, object name and port name causing the alarm. Up to 8 nodes can be supervised, connected to both or one of its SVIFT interface jacks, as separate chains or in a loop configuration. It scans all connected nodes for ROFLB objects and sends an SMS when new A- or B-alarm bits in these. It also optionally can handle the LEDs on the connected units to identify which unit causes the alarm.

GIO4 also acts as a gateway for incoming calls. After password control, it becomes transparent and thus allows full access to all SVIFT nodes - for external supervisions as well as control.

GIO4 main intended application is as only supervisor, and it is thus default configured not to respond to messages nor to pass on messages between its two SVIFT interfaces. This behaviour is however configurable - it can also act as a normal SVIFT node. The following SVIFT protocol objects are available when configured to respond to messages:

Description by SVIFT protocol objects (refer to SVIFT protocol documentation):

| Object | Name | Description |
|--------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4STCTL | StdLED | The LED at the SVIFT interface side of the unit. It is normally lit green when the unit has input power, but can change to red in four states: "Off", "Slow flash", "Fast flash" and "On". |
| NVSTR | ProdIndivData | A 100byte non-volatile string for storage of arbitrary product administrative data. Its default contents is empty (zero bytes). |

| Object | Name | Description |
|--------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ROFLB | IFLAGS | This flag byte has the following bits implemented: "A_INV" and "B_INV". These flags indicate that normal input voltage is missing at either the A or B side SVIFT interfaces. "NOLOOP" Indicates there is no external loop from the A to B SVIFT interfaces. "UNSTAB" Indicates GIO4 can not interpret the responses from the SVIFT interfaces - they appear unstable. Only the UNSTAB is default configured as a B-alarm, the other bits as no alarm. |

The following behaviour is also configurable:

- Whether to respond to any requests to the above described objects - default disabled.
- Where to send SMS in case of alarms (max 3 numbers, no numbers = supervision disabled))
- Whether to pass on messages (not addressed to this unit) between the SVIFT interfaces like an ordinary IO adapter - default disabled.
- Whether to handle the LEDs of connected units - default enabled. And if enabled also which LED state corresponds to non-alarm, B-alarm, A-alarm - default Off, Slow Flash, On.
- Whether to handle its own LED - default enabled. And if enabled also which LED state corresponds to non-alarm, B-alarm, A-alarm - default Off, Slow Flash, On.
- Gateway functionality ON/OFF (default ON).
- Gateway password max 8 characters.
- Normal or GSM modem for determination how to send SMS (default=normal)
- Modem command strings (default will cover most modems).

All configurations can be done using the freely available SVIFTerm GUI java application program. Maximum name length - for configurable names - is 9 characters. The configuration can optionally be protected by use of a separate password.

Modem interface

Standard DB9M male DTE wired DSUB connector implementing all 9 pin functions (equivalent to PC COM port). Connect to modem via standard modem cable.

Except for normal fixed network modems, this port also can use many GSM modems and GSM phones (contact Telamp for advice on manufacturer compatibility).

Specifications

| | |
|--------------------------|--------------------------------------|
| Dimensions: | 85x50x27 mm |
| Operating Temp Range: | -10C ...+60C |
| Power Connector: | EIAJ RC-5320 type III |
| Power Supply Voltage: | 6..12V DC |
| Current consumption: | typ 12mA |
| Feed to SVIFT Interface: | max. 150mA (guaranteed limit <340mA) |