# Telamp

## **GIO1 Data Sheet**

2003-10-25 Page 1 of 3 1594/te1100/01 a.fm

Highly configurable SVIFT general 8 port I/O unit.

- Default configured for 8 digital inputs with pullup
- All 8 ports configurable as outputs
- 3 ports configurable as 8-bit analog inputs having individual scaling properties.
- Active state hi or low individually configurable for all ports.
- Names for each port configurable.
- Powered either via jack or SVIFT signal interface typ 16mA consumption.
- Rich variety of mouniting options: DIN-rail, 19" rack, wall...
- Plus all the distinctive SVIFT features: self configured relative adressing, low cost daisy chain bus, SVIFT B open protocol, redundancy capability.



The GIO1 unit was developed as adaptor to SVIFT for equipment having relay contact supervision and/or control interface. The very high degree of configurability however make it useful also for many other purposes.

Description by SVIF	T protocol obj	ects (refer to	SVIFT protoco	I 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).
ROFLB	IFLAGS	This flag byte has two 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. Neither bit is indicated as an alarm (A or B).
ROFLB	Inbits	All ports configured as digital inputs are visible here. The active state (active high or active low) can be configured as well as the A or B alarm state recommendation. The object name ("Inbits") as well as each single port name ("Port1",) can be configured. This object is only visible if at least one port is configured as digital input.



2003-10-25 Page 2 of 3

1594/te1100/01\_a.fm

Object	Name	Description
OUTB	Outbits	All ports configured as digital outputs are available for control here. The active state (active high or active low) can be conbfigured, as well as the object name ("Outbits") and each single port ("Port1",) name. This object is only visible if at least one port is configured as digital output.
8ROSAN	Port1,	Ports 1-3 can be configured as analog inputs, and if so appears as individual 8ROSAN objects using the configurable names. For each of these objects, an offset value and its MULT, DIVI, EXP and TYPE parameters can be configured. The value presented i directly taken from an A/D converter connected to the port, and the offset value is first subtracted. A/D converter refernce voltage, see electrical specifications.

The default configuration of the unit defines all ports as inputs, active high, with no alarm recommendations. The ROFLB object name is "Inbits" and the individual ports are named "Port1",..".Port8".

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 be protected by use of password.

#### Description by pin:

Pin	Description
Port1	Default digital input. Reconfigurable as digital output or analog input.
Port2	Default digital input. Reconfigurable as digital output or analog input.
Port3	Default digital input. Reconfigurable as digital output or analog input.
Port4	Default digital input. Reconfigurable as digital output.
Port5	Default digital input. Reconfigurable as digital output.
Port6	Default digital input. Reconfigurable as digital output.
Port7	Default digital input. Reconfigurable as digital output.
Port8	Default digital input. Reconfigurable as digital output.
+5V	Supply voltage for external adaption circuitry. Also the reference voltage
0)/	Or the Internal AVD converter.
00	Ground reference of the unit. Same as the SVIFT Interface Ground.



# **GIO1 Data Sheet**

2003-10-25 Page 3 of 3 1594/te1100/01\_a.fm

### Specifications

Dimensions: Operating Temp Range: Power Connector: Port Terminal:	85x50x27 mm -10C+60C EIAJ RC-5320 type III Max 1.5mm <sup>2</sup> Screw terminal
Power Supply Voltage: Current consumption: Feed to SVIFT Interface:	612V DC typ 16mA + output currents max. 150mA (guaranteed limit <340mA)
Input Pullup (digital inputs):	typ 200uA (50-400 uA) on ports 4-8 typ 200uA (47kohm+/-1%) on ports 1-3
Digital Output Drive Current:	5mA (1kohm series res.)
+5V Output and A/D Accuracy:	+/-5% (tighter on request)