

# NITEL I/O Driver

# SNI

## DRIVER TYPES

	DIRECT	CALLED (MODEM)
<b>WINDOWS 3.11</b>	4.23-02	4.23-02
<b>WINDOWS NT 4.0</b>	6.00-8	6.00-8
<b>WINDOWS 2000</b>	6.00-8	6.00-8
<b>XP</b>	6.00-8	6.00-8

## HARDWARE SPECIFICATION

The I/O driver communicates via a serial cable to the NITEL module using the standard serial communication ports (COM1 and COM2), or using digiboard for communication with up to 8 channels.

The FIX is the master, and the connected NITEL modules are slaves. The NITEL module can be connected to max 16 RS-modules.

The called version of the I/O driver are capable of handling data transfer via modem and can receive incoming alarm calls.

## PROTOCOL

Baud Rate, Parity, Stop Bits, Data Bits: User Definable.

Up to 8 serial ports are supported through DigiBoard.

The I/O driver is not a polling driver, it acts as exception based system. The driver only sends out one type of messages, a request of all changed values since last reading. This means the driver only received data that has changed. This will decrease the communication traffic.

## SUPPORTED MESSAGES

<b>LS</b>	The driver sends a list of requested data points
<b>DG</b>	The driver requests values of all data points
<b>GG</b>	The driver requests changed values of data points
<b>GS</b>	The driver want to set a value
<b>SG</b>	The driver ask for alarms
<b>DS</b>	Nitel announces start of all values
<b>GS</b>	Nitel announces start of changed values
<b>SS1</b>	Nitel announces start of alarms

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## DATA TYPES

<b>ANALOG</b>	4 Byte Floating Point Value (IEEE)
<b>DIGITAL</b>	4 Byte Floating Point Value (IEEE). The digital values are transmitted as real and are defined as follows: Logical 0 = value < 0.0 (e.g. -10.0) Logical 1 = value > 0.0 (e.g. +10.0)

## RSTYPES

DIGITAL RS-TYPES	DESCRIPTION
RSCOS	Change of state alarm
RSPGD	Page (only one line)
RSDW	Page parameter
RSDI	Digital input
RSDO	Digital output
RSDU	Clock channel
RSDS	Digital setpoint
RSDP	Digital parameter
RSDZ	Digital intermediate value
RSDE	Digital inter-RS input
RSDA	Digital inter-RS output
RSUDI	Universal digital input
RSUDO	Universal digital output
RSS	RS-Status
ANALOG RS-TYPES	DESCRIPTION
RSPGA	Page
RSUAI	Universal analog input
RSUAO	Universal analog output
RSUS	Universal setpoint
RSUP	Universal parameter
RSUZ	Universal intermediate value
RSUE	Universal inter-RS input
RSUA	Universal inter-RS output
RSRTT	Runtime totalizer
NITEL INTERNAL TYPES	DESCRIPTION
MEA	Mean value
SYS	Survey of status
COU	Counter

## SIGNAL CONDITIONING

NONE

## COMMUNICATIONS PERFORMANCE

The driver can read max. 14 ANALOG values and max. 32 DIGITAL addresses values in one message.

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The driver writes to the Alarm History program if any errors occurs in the RS-module, this can be helpful in troubleshooting.

## MANUAL

SNIDOC.PDF available at [www.novotek.com](http://www.novotek.com)

## DEMO

Not available

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