

# SM\_H2

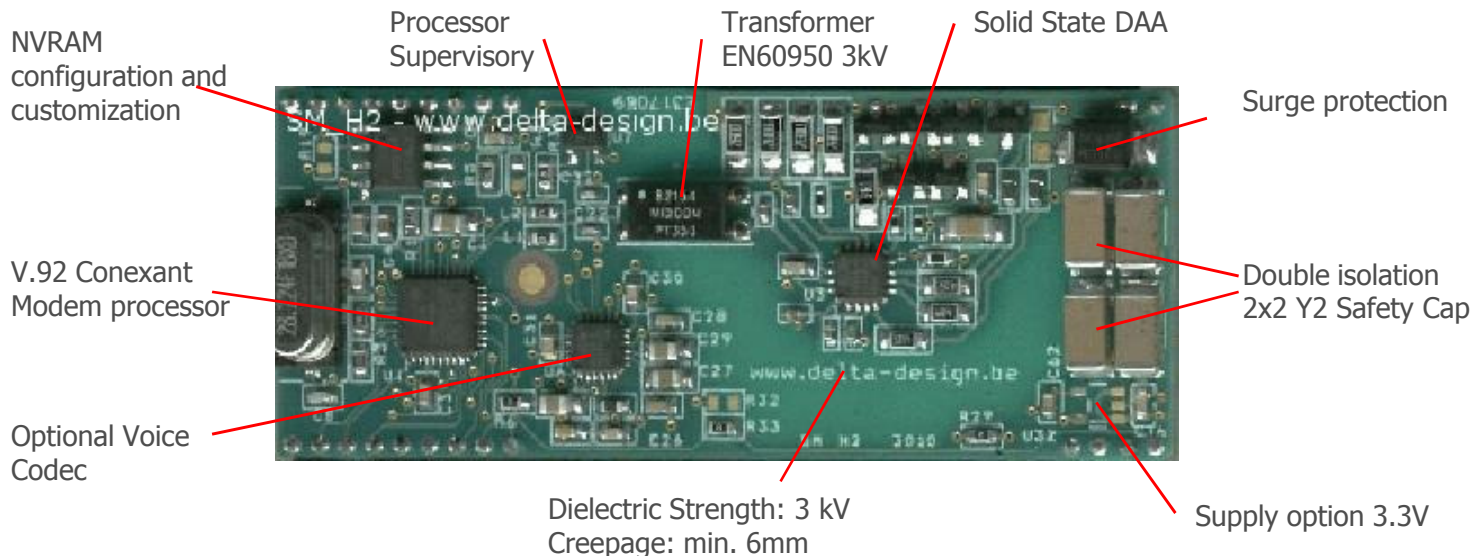
V.92 (56k) PSTN Socket Module with 3kV isolation, integrated SIA protocol and Contact ID

Bausch Datacom, a leading designer and manufacturer of dial-up and wireless modems for Commercial and Industrial Systems has developed a complete family of external and embedded modems specifically designed to meet the stringent requirements for the Medical Services, Electricity Metering Industry and Alarm Equipments.

The Bausch SM\_H2 Socket Module is a V.92 (56K) PSTN modem based on Conexant Technology. This Module is ideal for embedded medical, metering and alarm applications since it offers very low operating power requirements, a small board space, a worldwide compliance and a 3 kV dielectric withstanding voltage. Specifically for alarm applications it supports the SIA alarm protocol and contact ID.

The product can be provisioned for applications ranging from system monitoring and reporting to answering inbound calls with voice responses (for example SIA protocol for alarm equipment with voice listen-in applications –speakerphone functionality-). Industrial temperature ranges (-40° - 80°) are also available on special request.

The modem is available in both Serial TTL format and external modem format with serial RS-232/RS-485 (2 and 4 wire) interface. The new external modems are available in DIN-RAIL (DinBox PSTN 485 SIA), DESKTOP (Proxima V.92 SIA) and DIN 43861-2 (InduBox PSTN SIA) format, capable of operating under Windows, Linux or Mac environments. The new Bausch modem family is Safety, Emissions, and Telco compliant to meet most medical, alarm and metering device requirements.



**PSTN V.92 (56k) socket module**

**Small size: 64,5 x 26,5 mm**

**Voice listen-in for alarm equipment**

**3 kV isolation**

**SIA protocol and Contact ID**

**Very low power consumption**

**Safety, emission, Telco compliant**

**Optional -40° to +80° compliant**

### BAUSCH DATACOM

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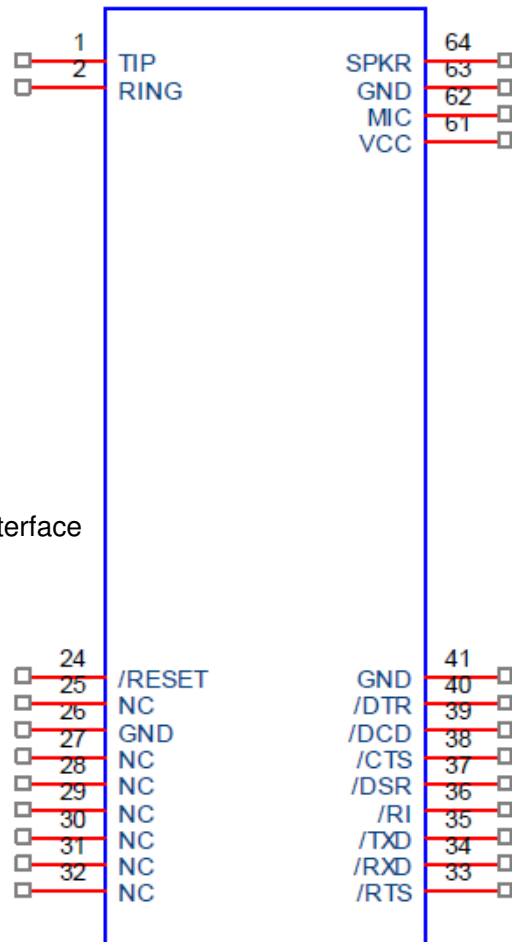


# Technical specifications

### Hardware specifications:

- PSTN socket module, small size: 64.5 x 26.5 mm
- SIA protocol and Contact ID support for alarm equipment
- Full duplex Speakerphone with AEC
- Serial modem processor (Conexant) with SmartDAA and voice Codec for speakerphone support for SIA alarm listen-in applications
- 3 kV isolation (3 kV dielectric withstanding voltage tested)
- Low power consumption
- Controller-based modem, no external memory required
- Modulations and protocols:
  - V.92 : Quick Connect, Modem-on-Hold and PCM upstream
  - V.90,V.34,V.32bis, V.32, V.22bis, V.21,Bell 212A, Bell103
  - V.23 Reversing,V.23 half-duplex
  - V.29 FastPOS and V22bis fast connect
  - V.80 synchronous Access Mode
  - V.17/V.29 Fax Class 1/1.0 and Fax Class 2
- Data compression: V.44,V.42bis, MNP5
- Error correction: V.42 en MNP 2-4
- V.80 synchronous access mode, synchronous and asynchronous DTE interface
- Call Waiting detection
- Serial asynchronous DTE host interface
- Hardware and software flow control and speed buffering
- Type I and Type II Caller ID detect
- Type II Caller ID snooping
- Call progress, blacklisting
- Integrated DAA
  - Extension pickup detection, digital line protection
  - Line-in-Use detection
- 3V3 power supply
- NVRAM for adding customized firmware code
- 63 embedded and upgradeable country profiles
- Full-duplex PCM 8-bit/16-bit voice pass-through mode
- Telephony/TAM voice modes support (V.253)
- DTMF tone detection and generation
- Concurrent DTMF, ring and Caller ID detection

### PIN Signals



## Ordering Information

- |                    |   |
|--------------------|---|
| <b>SM_H2_3V3</b>   | V.92 socket module, 3V3, SIA & Contact ID   |
| <b>SM_H2_3V3_V</b> | V.92 socket module, 3V3, SIA & Contact ID, Voice listen-in (voice and data, full duplex speakerphone) |

The SM\_H2 V.92 (56k) PSTN socket module was successfully integrated in the following external Bausch modems :

**DinBox PSTN 485 SIA** (DINRAIL), **Proxima V.92 SIA** (DESKTOP), **InduBox PSTN SIA** (DIN 43861-2)



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