

IMOD560

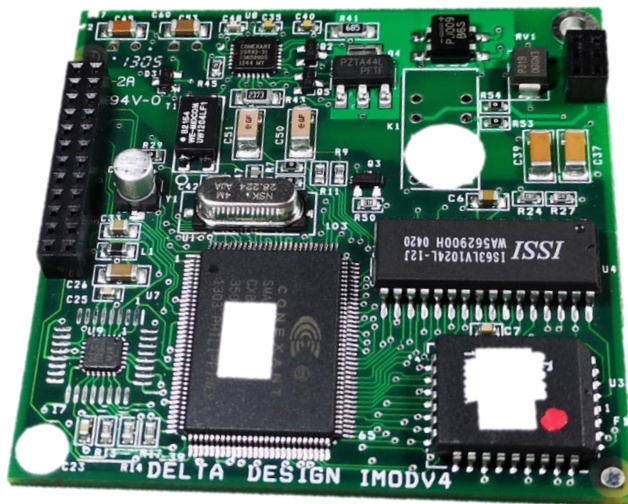
Embedded PSTN Module

Designed by Bausch Datacom!

V.92 PSTN Modem Module

The IMOD560 I-module supports different speeds (V.92 down to V.21) that meet global telephone line requirements. Available in a 56,4 x 56,4 mm size footprint, the IMOD (V.92 version), based on Conexant technology, is ideal for embedded modem applications due to its small board space, low power consumption and global compliance. This modem can also function as a SIA alarm transmitter with listen-in possibility.

The development of PSTN I-Modules and other embedded modem applications is one of the most Important activities of Bausch Datacom and its engineering company Delta Design and is still continued. The PSTN I-Modules that we design and produce are based, amongst others, on Silicon Labs Technology and Conexant Technology.



Product Highlights

- Small board space
- Low power consumption
- Global compliance
- SIA Protocol

Typical Applications

- Security systems
- Point-of-sale verification systems
- Set top boxes
- Industrial /medical monitoring systems
- E-mail Terminals
- ATM Terminals

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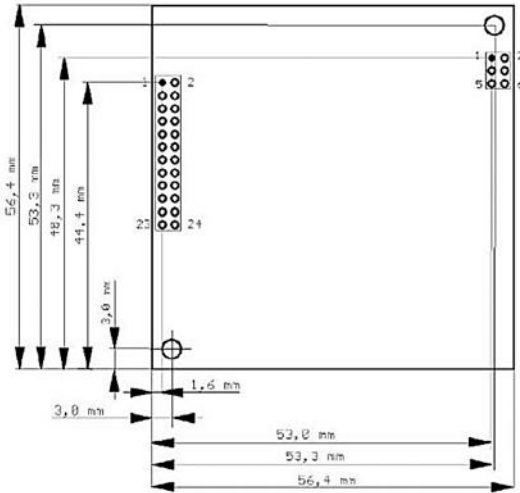


IMOD560 hardware specifications

The IMOD560 I-module supports different speeds (V.92 down to V.21) that meet global telephone line requirements. Available in a 56,4 x 56,4 mm size footprint, the IMOD560 is based on Conexant technology.

Form Factor

- I-Module for Embedded Applications
- Dimensions: 56,4 x 56,4 mm size footprint



Power Supply

- 3.3 Vdc
- Max 170 mA (measured 158 mA)

Engine

- Conexant SmartDAA 3 technology
- V.92 Modem
- Fax modem send and receive rates up to 14.4 kbps
- Command set : Hayes, subset of V.250 / V253

Approvals

- CE
- Australia

Interface & Connectors

- Serial TTL DTE interface
- DTE interface : V.24/V.28
- Data Format : Serial Asynchronous, 7 or 8 data bits o,e or no parity,
- one or two stop bits

Communication Protocols

- ITU V.92, V.90
V.34+/V.32b/V.32/V.22b/V.22/V.23/V.21
- V.44/V.42bis and MNP5 data compression
- V.42 and MNP2-4 error correction
- V.92 version includes Modem-on-Hold,
- Quick Connect, PCM Upstream, V.44 compression

Alarm Protocols

- SIA support / DTMF (receive /transmit)
- Listen-in possibility .

Functionality

- DTMF Support
- Full-duplex speakerphone
- Line-in-use detection
- Digital Line Guard (programmable)
- Extension Pick-up detection
- Remote Hang-up detection

PIN Layout

Pin	Type	Signal	Description
1		GND	Ground
2	Supply	VCC	3V3 DC supply (5V optional)
3		GND	Ground
4	Input	/TXD	Transmit Data
5		GND	Ground
6	Output	/RXD	Receive Data
7	Output	ID-PIN2	GND
8	Input	/RTS	Request To Send
9	Output	ID-PIN1	GND
10	Output	/CTS	Clear To Send
11	Input	/RESET	Reset Input
12	Input	/DTR	Data Terminal Ready
13	Output	/OH	Off Hook
14	Output	/DCD	Data Carrier Detect
15	Output	/RI	Ring Indicator
16	Output	/DSR	Data Set Ready
17	Output	UA	Output
18	Input	UE	Input
19	Output	UA2	Output 2
20	Input	UE2	Input 2
21		GND	Ground
22	Output	SPK	Speaker
23	Input	MIC	Microphone
24		GND	Ground

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