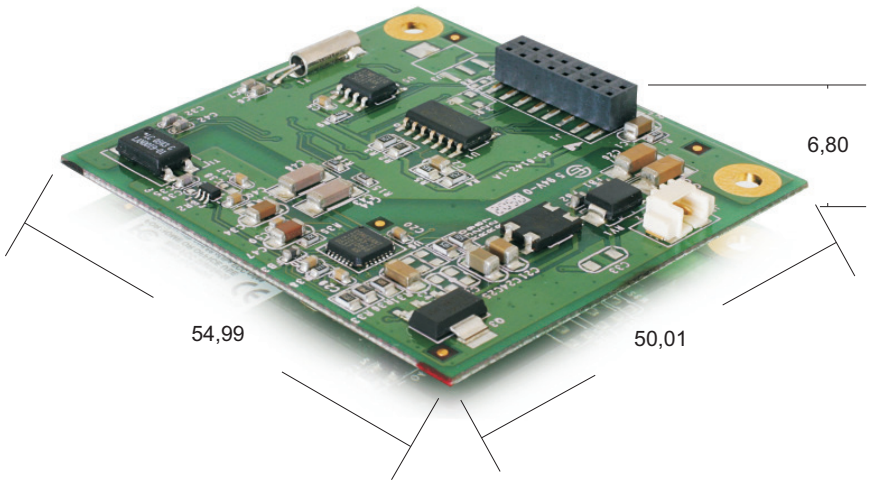
Specification

95804

Delock industry modem module V. 90 / V.92 RJ-11



date: 20.02.2009

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1. Description of V.90/K56flex controller-based modem module

95804 is an internal controller-based modem module with TTL serial I/F. The V.90/V.92 modem module design is based on Conexant Technologies Smart DAA controller-based modem chip set. The DAA chip set redefined the state-of-the-art for controller-based modems by integrating a micro-controller, data pump, and DTE interfaces into a single device to achieve the lowest possible cost. This two-chip chip set (CX81801 data pump/micro-controller and CX20493 smart DAA) has high level of integration with V.90/V.92 technology. Conexant's Smart DAA technology eliminates the need for a costly analog transformer, relays and opto-isolations typically used in discrete DAA (Data access Arrangement) implementations. The Smart DAA architecture also simplifies product implementation by eliminating the need for country-specific board configurations enabling worldwide homologation of a single modem board design and single bill of materials (BOM).

2. Country support

The DAA of this modem is designed to comply with the regulations of U.S, Canada, Japan, CTR21.

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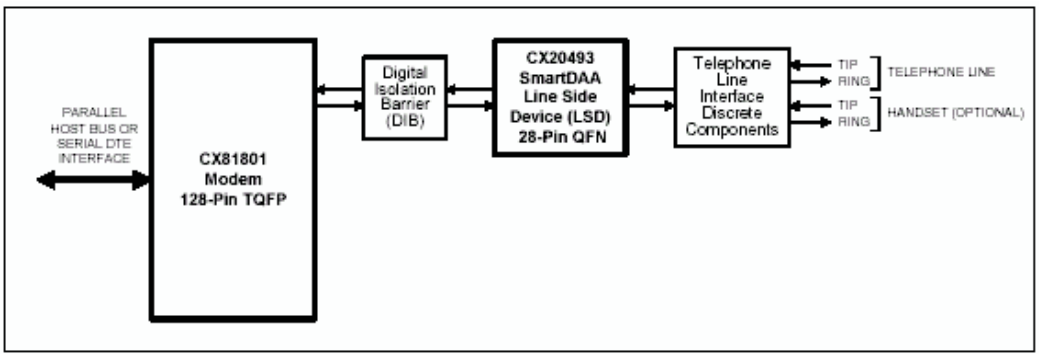
3. Features

• Data modem
- Quick connect, Modem-on-hold, and PCM upstream functions (V.92 models)
- ITU-T V.92/V.90 (V.92 models), V.34 (V.92 and V.34 models), V.32bis, V.32, V.29, Fast POS (v.29)m V.22bis, V.22, V.22 Fast Connect, V.23, V.21, Bell 212A, and Bell 103
- V.250 and V.251 commands
• Data compression and error correction:
- V.44 data compression
- V.42 bis and MNP 5 data compression
- V.42 LAPM and MNP 2-4 error correction
• Fax mode send and receive rate up to 14.4 kbps:
- V.17, V.29, V.27 ter, and V.21 channel 2
- Eia/TIA 578 Class 1 and T.31 Class 1.0
• Caller ID
• Hardware-based modem controller
• +3.3V operation with +5V tolerant digital inputs

4. Block diagram



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5. Operating system support

- Windows 98SE
- Windows ME
- Windows 2000
- Windows XP
- LINUX

6. Environmental operating range

Operating temperature:	0-70 degrees Celsius
Humidity:	10-90%, no condensing

7. Power requirements

Operating voltage:	1) +5.0V+-5% @ 68mA typ. 73mA max.
	2) +3.3V+-5% @ 69mA typ.

* Note: This module support manufacture option for power supply voltage

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8. Power dissipation

Power dissipation is highly dependent on DSP program activities and the frequency of operation. The typical approximated power dissipation is as below:
Power dissipation for modem module

active (typ.)	5,0V	340 mW
	3.3V	227 mW
(max.)	5,0V	365 mW

Pin#	Signal name	Pin#	Signal
1	+5V/+3.3V (*1)	2	GND
3	RLSD#	4	RXD#
5	TXD#	6	DTR#
7	DSR#	8	RTS#
9	+5V/+3.3V (*1)	10	NC
11	CTS#	12	RI#
13	NC	14	SPK
15	RESET	16	GND

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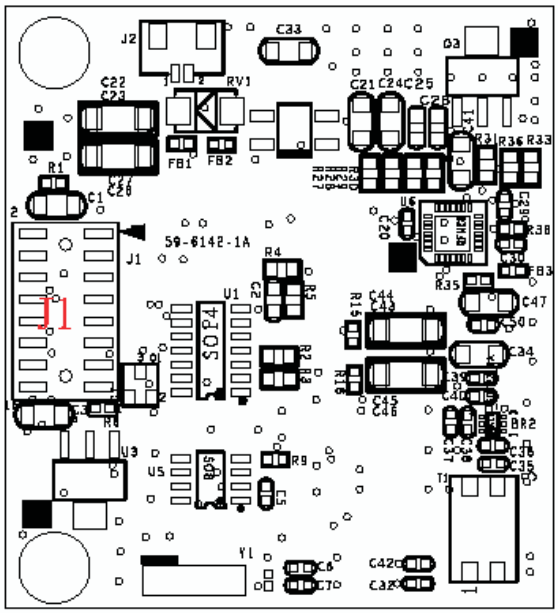
9. Pin assignment

1) Top layer screen



2) J1 pin assignment

Pin#	Signal name	Pin#	Signal
1	+5V/+3.3V (*1)	2	GND
3	RLSD#	4	RXD#
5	TXD#	6	DTR#
7	DSR#	8	RTS#
9	+5V/+3.3V (*1)	10	NC
11	CTS#	12	RI#
13	NC	14	SPK
15	RESET	16	GND

Note 1: Power supply voltage: normal type: 5V
low power type: 3.3V

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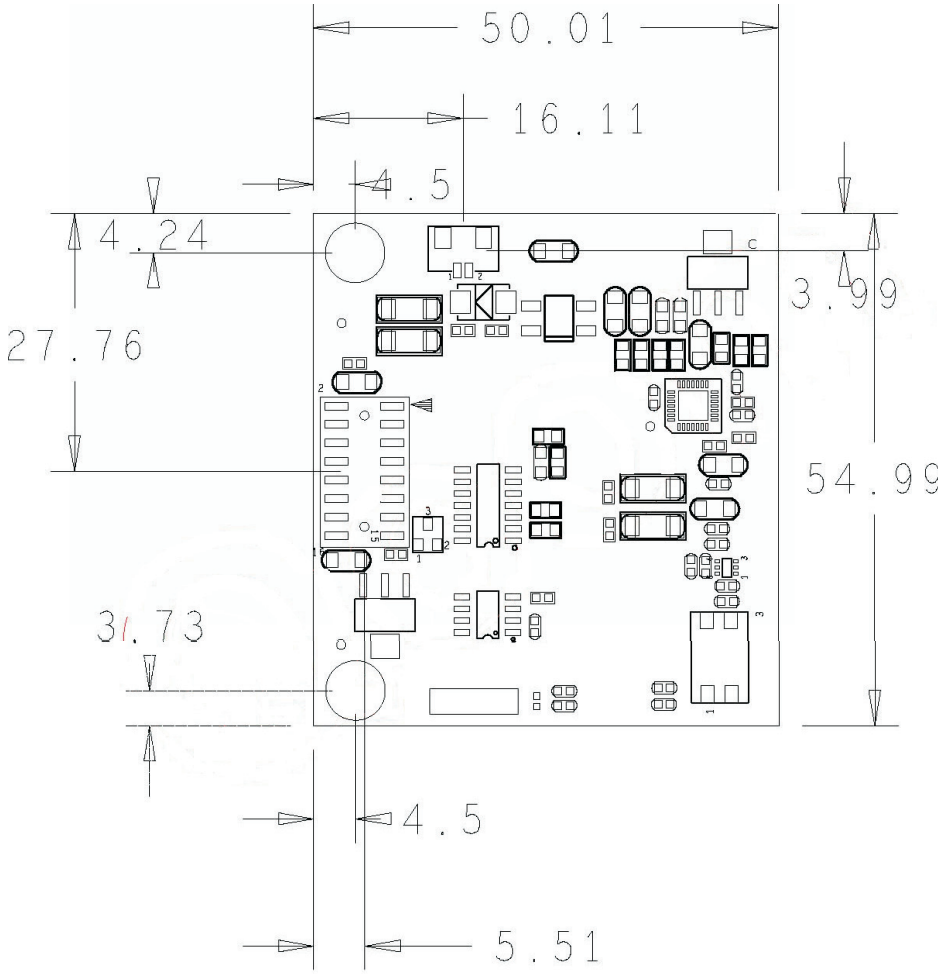
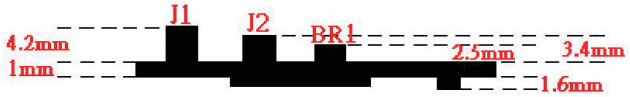
10. Mechanical dimension





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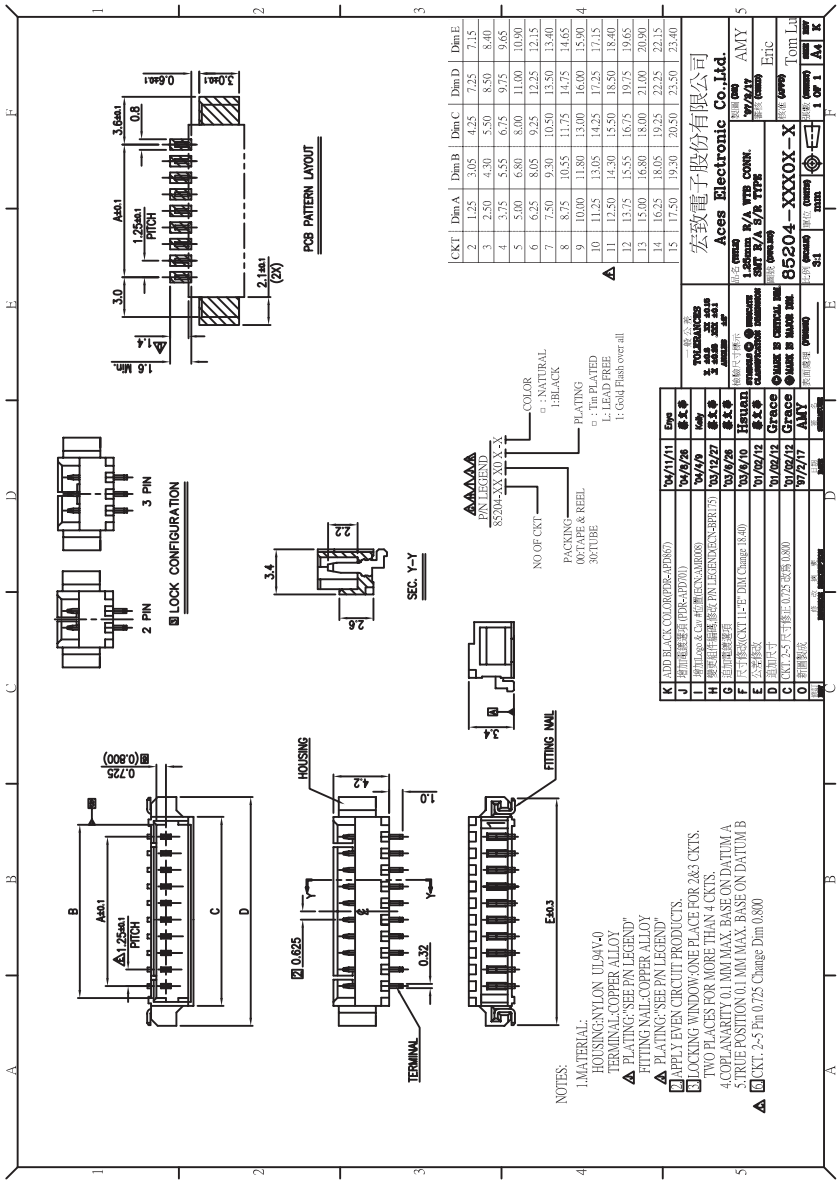
11. Connector type



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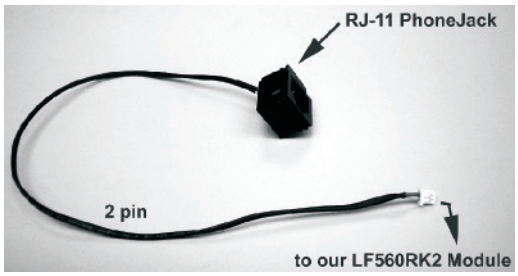
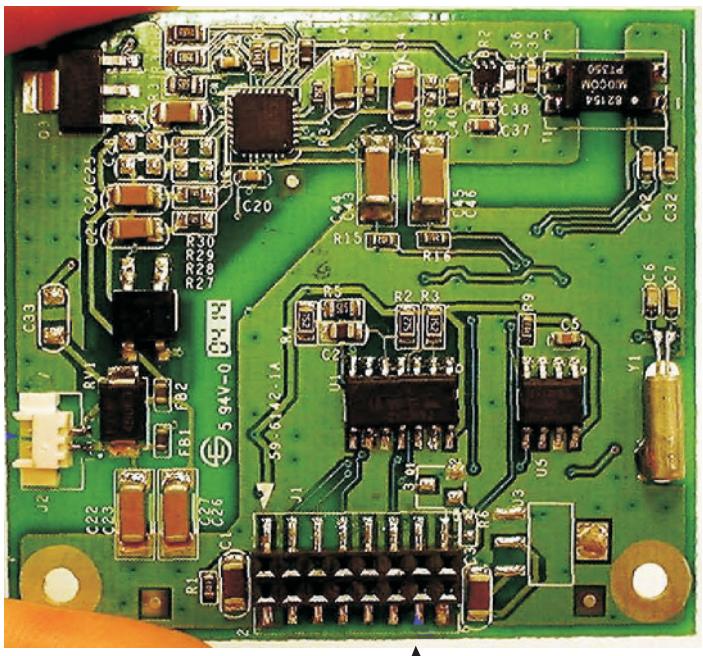


Controller-based RS 232TTL 56Kbps modem module,



2 Pin connector for “line-in” signal (from RJ-11 phonejack)

16 pin board to board