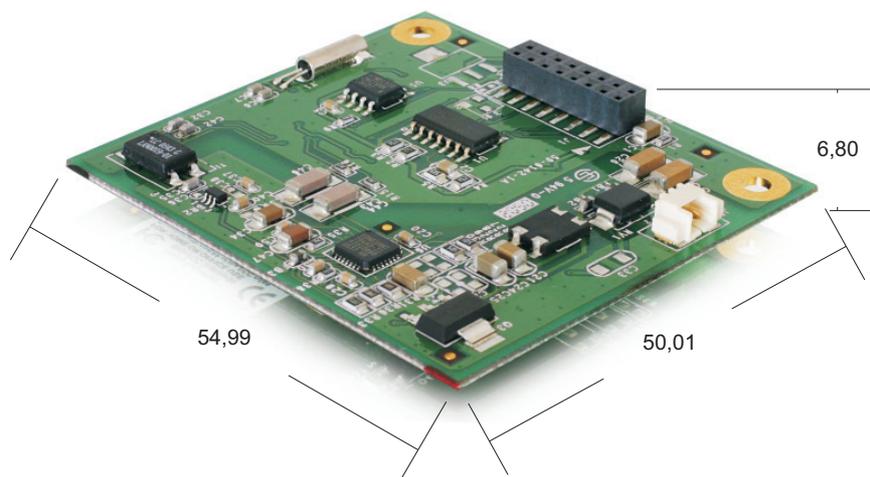


Specification

95804

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



date: 20.02.2009



Specification

95804

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

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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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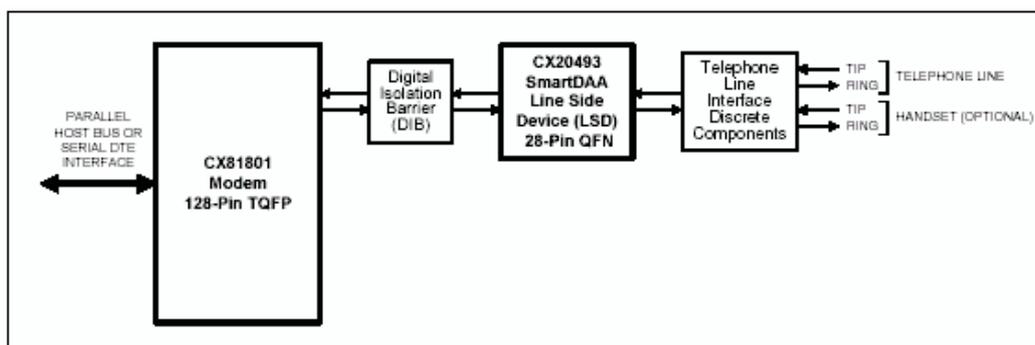
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3. Features

- 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

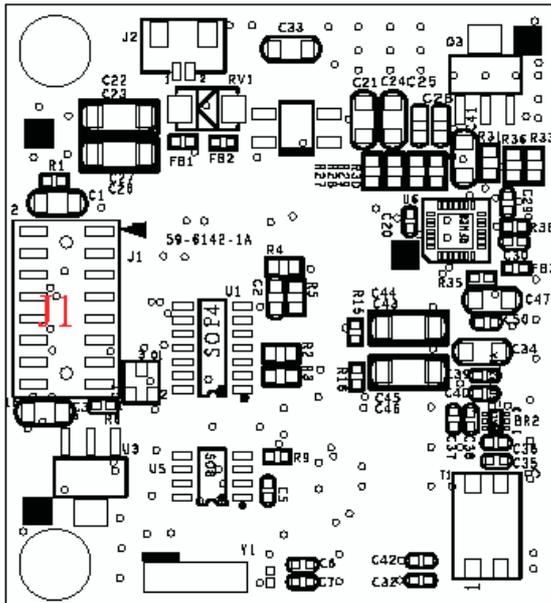
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9. Pin assignment

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

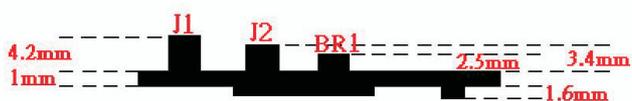
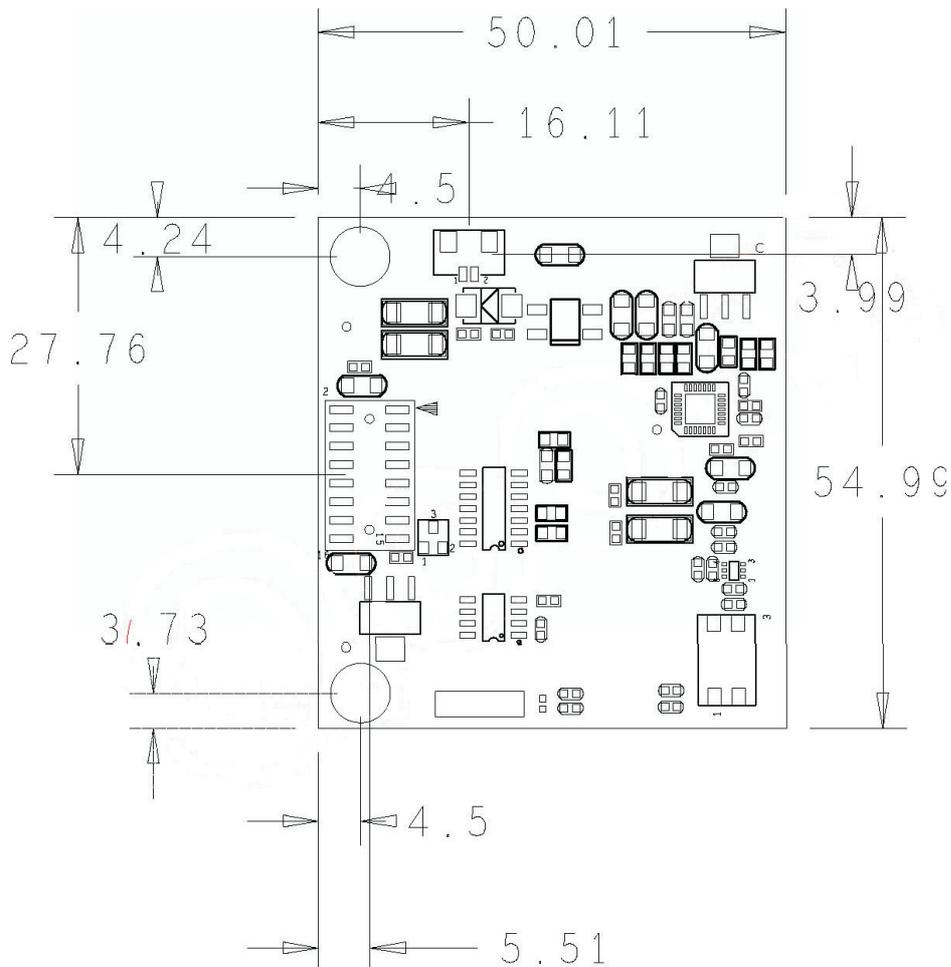
Note 1: Power supply voltage: normal type: 5V
low power type: 3.3V

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10. Mechanical dimension



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

11. Connector type

LOCK CONFIGURATION
2 PIN
3 PIN

PCB PATTERN LAYOUT

TERMINAL
HOUSING
FITTING W/AL

NOTES:
1 MATERIAL: NYLON T194V-0
2 HOUSING: COPPER ALLOY
3 TERMINAL: COPPER ALLOY
4 PLATING: SEE PIN LEGEND
5 FITTING: NAIL-COPPER ALLOY
6 APPLY EVEN CIRCUIT PRODUCTS
7 LOCKING: WINDOW ONE PLACE FOR 243 CKTS.
8 TWO PLACES FOR MORE THAN 4 CKTS.
9 COPLANARITY 0.1MM MAX. BASE ON DATUM A
5 (TRIE POSITION) 0.1MM MAX. BASE ON DATUM B
10 CKT. 2-5 Pin 0.725 Change Dim 0.800

CKT	Dim A	Dim B	Dim C	Dim D	Dim E
1	1.25	3.05	4.25	7.25	7.15
2	2.50	4.30	5.90	8.50	8.40
3	3.75	5.55	6.75	9.75	9.65
4	5.00	6.80	8.00	11.00	10.90
5	6.25	8.05	9.25	12.25	12.15
6	7.50	9.30	10.50	13.50	13.40
7	8.75	10.55	11.75	14.75	14.65
8	10.00	11.80	13.00	16.00	15.90
9	11.25	13.05	14.25	17.25	17.15
10	12.50	14.30	15.50	18.50	18.40
11	13.75	15.55	16.75	19.75	19.65
12	15.00	16.80	18.00	21.00	20.90
13	16.25	18.05	19.25	22.25	22.15
14	17.50	19.30	20.50	23.50	23.40

宏致電子股份有限公司
Aces Electronic Co., Ltd.

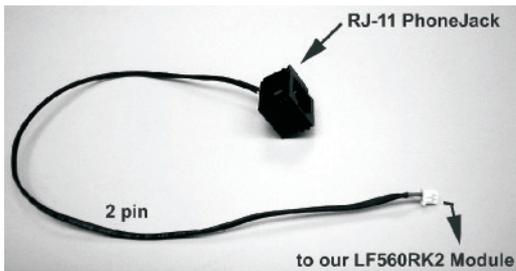
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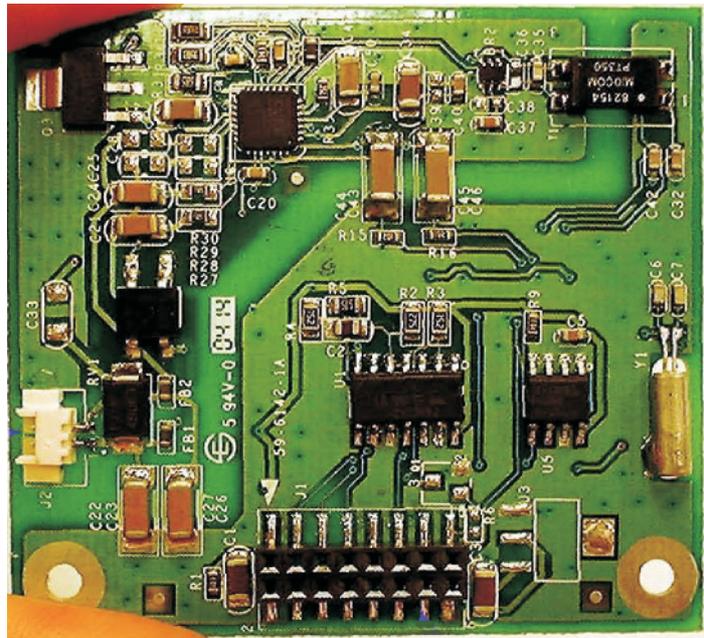
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Controller-based RS 232TTL
56Kbps modem module,



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

16 pin board to board