



## DELTA DESIGN MODEM SOLUTIONS SMD24XXL SOCKET MODULE

### Product Description

The SMD24XXL MODEM MODULE is a complete modem module that meets global telephone line requirements. Available in a socket (64,5 mm x 26,5mm) size footprint, the device is ideal for embedded modem applications due to its small board space, low power consumption and global compliance. The device is available in 6 different versions, ranging from V.92 down to V.22b.

The module allows you to reduce time to market by using a ready to use approved solution.

### Features

- Modulation and protocols  
ITU-T V.92 \*  
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.44,V.42bis, MNP5 data compression \*
- Error Correction: ITU-V.42
- Call Waiting detection \*
- DTE/host interface  
Serial  
Asynchronous mode
- Hardware and software flow control and speed buffering
- Type I and Type II Caller ID detect \*
- Call progress,blacklisting
- Integrated DAA  
Globally compliant line interface  
Extension pickup detection  
Digital Line protection  
Line -in-Use detection
- 3V3 or 5V power supply
- Low power consumption TBD
- Based on Silicon Labs Isomodem solution
- Small Size 64.5 x 26.5 mm
- Reliable SMD based design
- SIA protocol support\*

\* model depending, see feature table

### Applications

- Security systems
- Point-of-sale verification systems
- Set top boxes
- Industrial /medical monitoring systems
- Power meters
- Remote monitoring
- Email Terminals
- ATM Terminals

### Standard Compliance

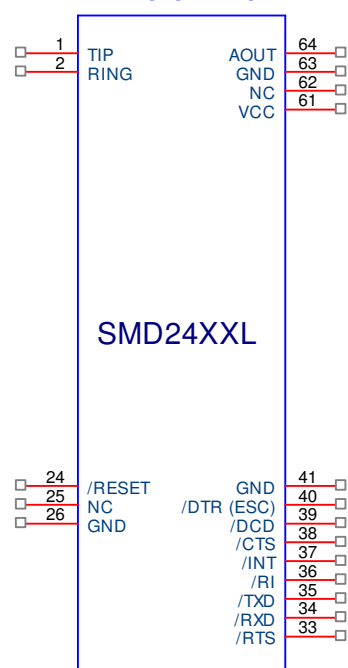
- Telecom  
ETSI ES 203021-1 V2.1.1 (2005-06)  
ETSI ES 203021-2 V2.1.1 (2005-06)  
ETSI ES 203021-2 V2.1.1 (2005-06)
- Safety  
IEC60950-1 compliant design  
Use of safety certified components
- EMC  
EN55022 class B  
EN55024
- RoHS Compliant

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**DELTA**  
**DESIGN**

PIN	NAME	FUNCTION	DIR
1	TIP	Telephone Line TIP	-
2	RING	Telephone Line RING	-
24	/RESET	Reset Active low input	In
25	NC	Not Connected	-
26	GND	Signal Ground	-
33	/RTS	Request To Send	In
34	/RXD	Receive Data	Out
35	/TXD	Transmit Data	In
36	/RI	Ring Indicator	Out
37	/INT	Interrupt	Out
38	/CTS	Clear To Send	Out
39	/DCD	Data Carrier Detect	Out
40	/DTR	Data Terminal Ready	In
41	GND	Signal Ground	-
61	Vcc	Vcc Power Supply ( 5V or 3V3 )	In
62	NC	Not Connected	-
63	GND	Signal Ground	-
64	AOUT	AOUT analog output	Out

### PIN SIGNALS



Feature	SMD2401L	SMD2404L	SMD2415L	SMD2434L	SMD2457L	SMD2493L
Max Speed(bps) TX/RX	2400/2400	2400/2400	14400/14400	33600/33600	33600/56000	48000/56000
V.44						<b>X</b>
V.42b MNP5		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
V.42 MNP2-4		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Call Waiting detection		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Fast Connect V.22b	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
Fast Connect V.29		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
CID type I	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
CID type II		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>
SlA support	<b>X</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>

### ORDERING INFORMATION

SMD2401L-3V3-R	V.22bis modem 3V3 supply
SMD2401L-5V-R	V.22bis modem 5V supply
SMD2404L-3V3-R	V.22bis modem 3V3 supply
SMD2404L-5V-R	V.22bis modem 5V supply
SMD2415L-3V3-R	V.32bis modem 3V3 supply
SMD2415L-5V-R	V.32bis modem 5V supply
SMD2434L-3V3-R	V.34 modem 3V3 supply
SMD2434L-5V-R	V.34 modem 5V supply
SMD2457L-3V3-R	V.90 modem 3V3 supply
SMD2457L-5V-R	V.90 modem 5V supply
SMD2493L-3V3-R	V.92 modem 3V3 supply
SMD2493L-5V-R	V.92 modem 5V supply

SMD24XXL\_PB030706

