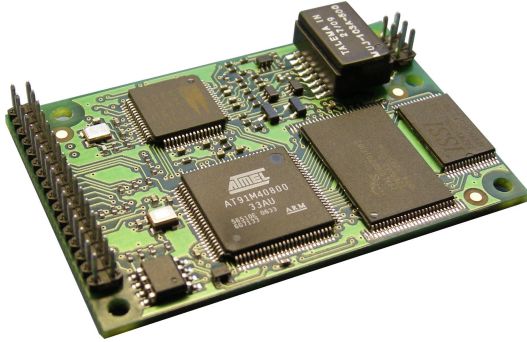


eviateg TA ECO37

Data Sheet



Ready to integrate ISDN modem solution with S₀ interface

Reduction of development time and costs

Quick time-to-market

Benefits:

- Cost-saving versatile ISDN modem
- Pin compatible GSM modem under development

Features:

- Standard AT command set with ISDN enhancements
 - Asynchronous serial interface supports speeds up to 115.200 bps (230.400 bps optional), hardware and software handshake
 - 10 and 11 bit: 7E1, 7O1, 7N2, 7E2, 7O2, 8N1, 8E1, 8O1, 8N2
 - Twin port solution with 2nd serial interface available for simultaneous connections to different destinations ²⁾
 - Autobaud detection on the 1st serial interface
 - Caller line identification
 - Automatic call reception
 - DTR auto dialing
 - Poweron auto connect
 - Remote configuration with password check
 - Password controlled callback
 - Automatic disconnect by inactivity timeout
 - Dial number memory
 - Preselection
 - Three MSNs for different B channel protocols and different services
 - Automatic B channel protocol recognition
 - ISDN line check
 - Date and time
 - Advice of charge information
 - Fixed net SMS service
 - PCM interface for telephony applications ¹⁾
 - Firmware updateable (Flash Memory)
 - Plug & play for Windows
- ¹⁾ TA ECO37 PCM versions
²⁾ TA ECO37 Twin versions
³⁾ under development

Specifications:

Size: 55.80 mm x 37.30 mm x 9.90 mm
2.197 inch x 1.468 inch x 0.390 inch

Power requirements: 3.3 V DC ±5 %

Power consumption:

Typical 175 mW @ 3.3 V
Maximum 200 mW @ 3.3 V

Environment:

Humidity: 0 .. 70 % not condensing
Operating ambient temperature: -30 °C .. +85 °C
Storage temperature: -40 °C .. +85 °C

Mechanical interface:

Male 0.5 mm square pin headers with 2 mm pitch, module can be soldered directly to a PCB

User interfaces:

Serial: ITU-T V.24
ISDN: S₀ interface (BRI, ITU-T I.430)
PCM/GCI interface for voice applications ¹⁾

Protocols:

V.110, V.120, X.75SLP, PPP, T.70NL, raw HDLC, HDLC-UI, ISO8208 (X.25 DTE-DTE), X.31, leased line, G.711 A-law ¹⁾, G.711 μ -law (optional) ¹⁾, Fixed net SMS (ETSI ES 201 912) ³⁾

ISDN switch types:

DSS1/NET3 (PP/PMP)
US National ISDN 1, AT&T 5ESS, Northern Telecom DMS-100, optional: 1TR6

Certifications

Telecom: TBR3 / CTR3 (ACTA / IC on request)

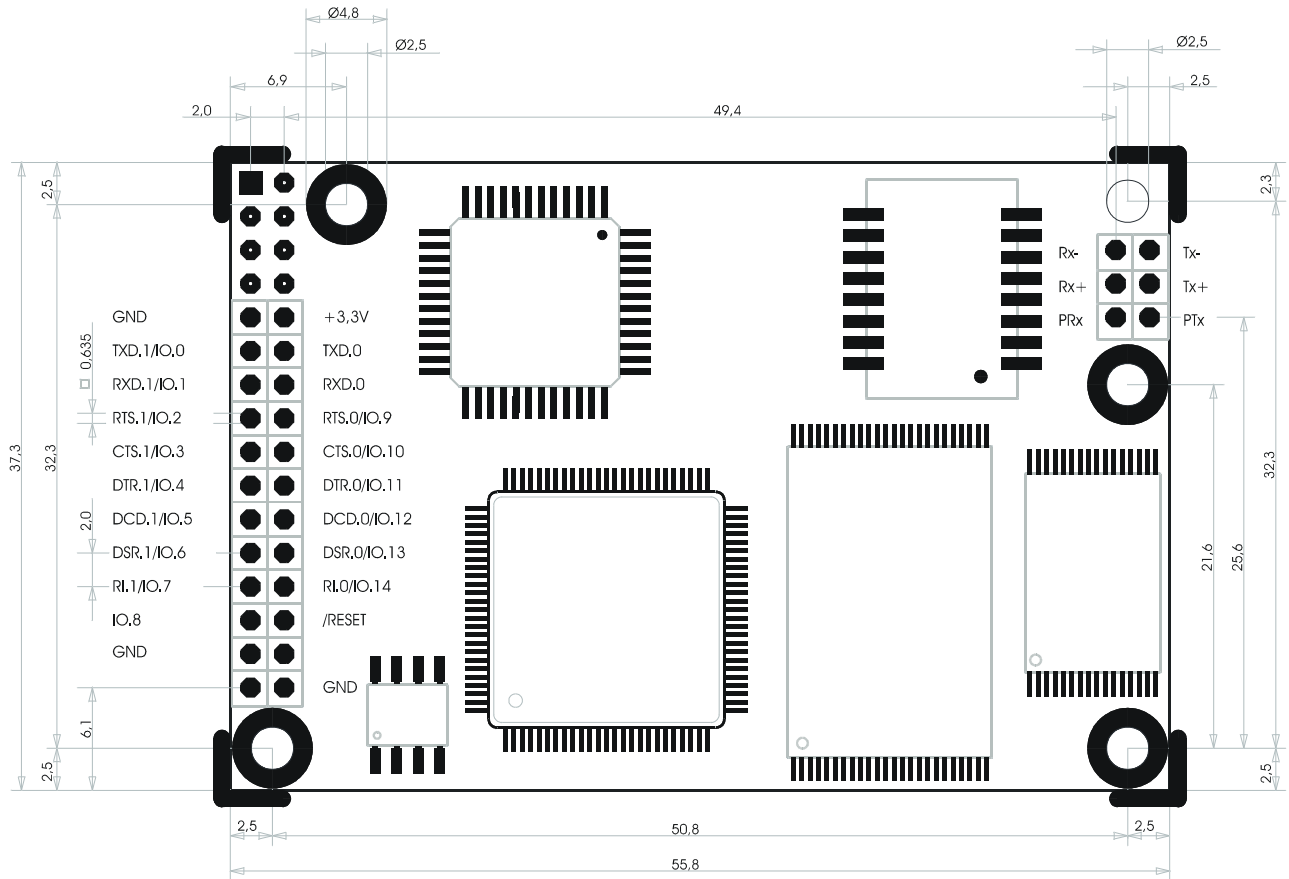
Production: ISO9001/9002 compatible

Warranty: 2 years

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Pinout and mechanical specifications:



Pin	Description	Pin	Description	Pin	Description	Pin	Description
1	SYNC_0 ³⁾	11	TxD.1 ²⁾ / IO.0 ³⁾	21	DCD.1 ²⁾ / IO.4 ³⁾	31	Microphone ³⁾
2	SYNC_1 ³⁾	12	TxD.0	22	DCD.0 / IO.12 ³⁾	32	GND
3	DD ¹⁾	13	RxD.1 ²⁾ / IO.1 ³⁾	23	DSR.1 ²⁾ / IO.6 ³⁾	33	ISDN S ₀ Rx-
4	DU ¹⁾	14	RxD.0	24	DSR.0 / IO.13 ³⁾	34	ISDN S ₀ Tx-
5	FSC ¹⁾	15	RTS.1 ²⁾ / IO.2 ³⁾	25	RI.1 ²⁾ / IO.7 ³⁾	35	ISDN S ₀ Tx+
6	DCLK ¹⁾	16	RTS.0 / IO.9 ³⁾	26	RI.0 / IO.14 ³⁾	36	ISDN S ₀ Rx+
7	EC1 ¹⁾	17	CTS.1 ²⁾ / IO.3 ³⁾	27	IO.8 ³⁾	37	ISDN Pwr Rx ⁴⁾
8	EC2 ¹⁾	18	CTS.0 / IO.10 ³⁾	28	/RESET	38	ISDN Pwr Tx ⁴⁾
9	GND	19	DTR.1 ²⁾ / IO.4 ³⁾	29	GND		
10	+ 3.3 V	20	DTR.0 / IO.11 ³⁾	30	Speaker ³⁾		

¹⁾ only for PCM versions

²⁾ only for Twin versions

³⁾ only for custom specific versions

⁴⁾ do not connect

Ordering information:

Order number	Product name	RS232 interfaces	Voice
410196	TA ECO37	1	
410197	TA ECO37 PCM	1	with external codec
410198	TA ECO37 Twin	2	
410199	TA ECO37 Twin PCM	2	with external codec