

IG1000 Embedded Modem



NOW YOU CAN SLASH THE COST AND TIME IT USED TO TAKE TO ADD A MODEM TO YOUR DESIGN

THE SIMPLEST, MOST COST-EFFECTIVE EMBEDDED MODEM – WITH SEPARATE DEVELOPER'S KIT

The IG1000 is the first uniquely Australian developed modem that offers designers a space efficient communications module suitable for any data transfer application.

NetComm's IG1000 enables OEM's to integrate a variety of modem functions with the benefit of accessing real time data, low cost management/support, plus add-on service possibilities.

International EMC and safety standards have been tested and certified, bringing the integration cost down for approval ratings on the finished product. Structured to fit into a generic industry footprint, this Conexant chipset product brings with it all the capabilities of a full hardware modem.

This product can be integrated into any device that requires data transfer via a PSTN connection, incorporating the latest V.92 technology to give your product the benefit of high upstream speeds (up to 48Kbps).

The separate IG1000 TEST 5V Developer's Kit includes:

- Board with footprint socket
- 9-pin serial interface connector
- Power input socket
- PSTN (telephone) socket

BENEFITS

- Greatly reduced approval time and costs
- Simply provide for the pinouts in your design
- Logging Data real time vs onsite time
- Low cost management and support
- Low cost networking
- End user accessibility and add-on service possibilities

Key Specifications

- V.92 – upstream rates up to 48Kbps, QuickConnect, and Modem-on-Hold functions
- V.92, V.90, V.34, V.32Bis, V.32, V.22 bis, V.22, V.23, and V.21;
- V.22 bis Fast Connect
- Bell 212A and Bell 103
- 2-wire Leased Line
- TAM support
- Fax Class 1 & 2
- External flash ROM includes default values for 29 countries
- Flash upgradable
- Caller ID
- Small design (25mm x 65mm)
- Extensive AT command set
- Designed in Australia
- Local Support
- Local and International Approvals: A-Tick, CB Certified, EN55022 Class B, FCC Part 15 Class B

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SPECIFICATIONS

- ITU-T V.92 with PCM upstream rates up to 48 kbps, QuickConnect, and Modem-on-hold functions
- V.92, V.90, V.34, V.32bis, V.32, V.22 bis, V.22, V.23, and V.21; Bell 212A and Bell 103
- MNP 10EC(tm) enhanced cellular performance
- V.250 and V.251 commands
- V.22 bis fast connect
- Data compression and error correction
- V.44 data compression for optimal downloading of Internet Web pages and files
- V.42 bis and MNP 5 data compression
- V.42 LAPM and MNP 2-4 error correction
- Fax modem
- V.17, V.29, V.27 ter, and V.21 channel 2
- EIA/TIA 578 Class 1 and T.31 Class 1.0 commands
- V.80 synchronous access mode supports host-controlled communication protocols with H.324 interface support
- Upgradeable Flash ROM
- Data/Fax/Voice call discrimination
- Hardware-based modem controller and digital signal processor (DSP)
- Worldwide operation
- Call progress, blacklisting
- External flash ROM includes default values for 29 countries
- Distinctive ring detect
- Caller ID detect
- Off-hook Call Waiting Caller ID detection during data mode in V.92, V.90, V.34, V.32bis, or V.32
- Telephony/TAM
- Leased Line Functionality
- V.253 commands
- 2-bit and 4-bit Conexant ADPCM, 8-bit linear PCM, and 4-bit IMA coding
- 8 kHz sample rate
- Concurrent DTMF, ring, and Caller ID detection
- Built-in host/DTE interface with speeds up to 230.4 kbps
- Direct mode.
- Flow control and speed buffering.
- Automatic format/speed sensing.
- Serial async TTL interface, supports speeds up to 230.4 Kbps
- Industry standard pin outs
- +5V or optional +3.3V operation with +5V tolerant digital inputs.
- Typical power consumption 190mA @5V (Operating on-line), 30mA (Sleep Mode).
- Size 65.6 X 26.6mm, height off base PCB 17mm

APPLICATIONS & MARKETS

The IG1000 offers a complete communications solution and is suitable for real time data capture in:

- meter reading
- ticketing
- vending
- point-of-sale
- EFTPOS terminals
- satellite network integrators
- mining
- engineering
- industrial waste
- plant and equipment
- office machinery
- security
- rural
- utilities
- vending
- refrigeration
- air conditioning
- home automation.

**1 YEAR
WARRANTY**

Conditions apply

Module Product Code: IG1000C50AU

Development Kit Product Code: IG1000 TEST 5V

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