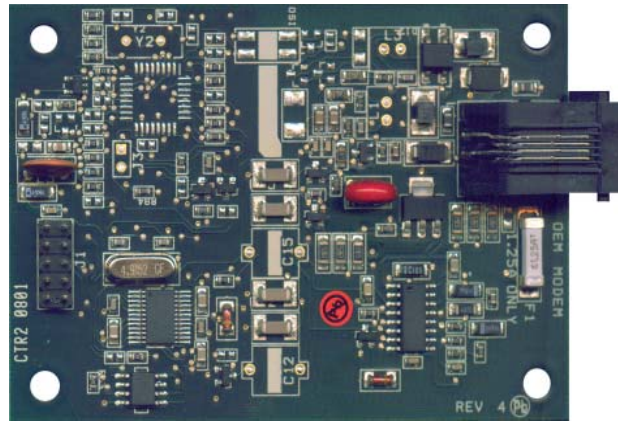


OEM MODEMS

OEM-Modem-56C2

Low power modem module with Caller ID for monitoring and controlling remote equipment



- Fixed line PSTN modem provides connectivity to remote equipment.
- Highly integrated approved module for embedded M2M applications
- Footprint compatible with GSM/GPRS alternatives

benefits

- Fast response to problems
- Reduce downtime
- Increase reliability
- Ease maintenance
- Reduce costs
- Increase revenues
- Improve customer service

applications

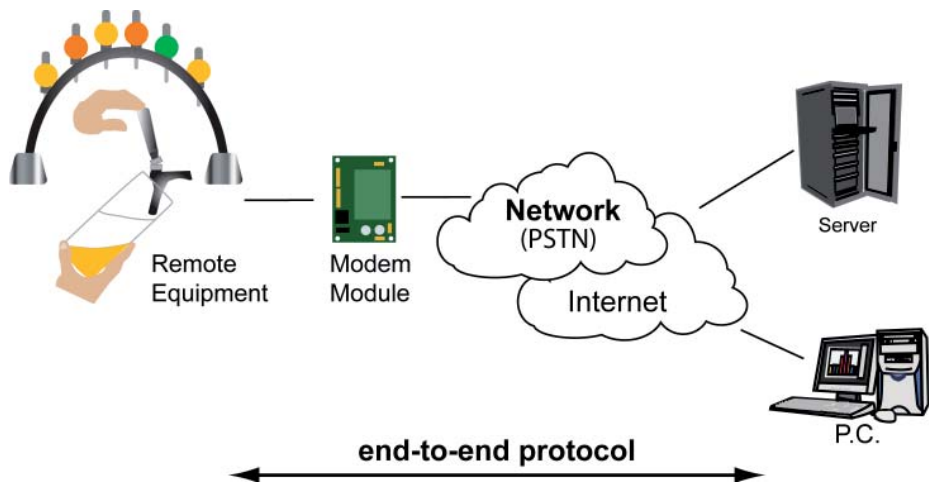
- Beer dispense monitoring
- Security systems
- Remote utility metering
- Remote data collection
- Electronic Point of Sale
- Environmental control
- Video conferencing
- Set top box digital TV

overview

OEM-MODEM-56C2 is an OEM PSTN modem module with Caller ID support for embedded applications. This module offers a small footprint, low power consumption and global compliance*. It is footprint compatible with Comtech M2M's GSM/GPRS and Internet ready μWEB Lite modules providing upgradeability to other networks.

solution

The OEM-MODEM-56C2 is capable of DTMF auto-dial and auto-answer. Both onhook and offhook parallel phone detection are supported so as to prevent the modem seizing the line or to terminate a call if a parallel phone is offhook. V.42Bis data compression and V.42 error correction protocols ensure fast error free data transfer. Type 1 (on-hook) Caller ID support allows the modem to report the number of the calling party to the host. OEM-MODEM-56C2 has been approved to S002 for Australia and meets the requirements of TBR-21 for use in Europe. Country configuration selectable using new AT+GCI command.



specifications

standalone automated modes

- Pulse and DTMF autodial
- Auto answer on ring detection
- Autobaud enabled
- Hardware flow control (RTS/CTS)
- Software flow control (XON/XOFF)
- EEPROM storage for custom / default settings

protocols

- V.29 fast connect mode support
- V.42 error correction
- V.42bis data compression
- AT command set support for call control

PSTN

- High speed ITU V.90, V.34, V.32bis
- Low speed ITU V.22bis/V.22/V.21
- Low speed Bell 103, Bell212
- Data rates from 300bps to 56Kbps
- Automatic rate negotiation
- On-hook parallel phone detection
- Off-hook parallel phone detection
- Caller Line Identification (CLI) decode

physical interface connectors

- 10-way TTL interface (3V3 output)
- RJ11 network connection
- Small mechanical outline
approx: 59mm x 89mm

DC characteristics

- Single +5VDC Power Supply (3V3 option).
- Low operating current. (typically 26mA)
- Auto stand-by mode. Typically 5.3mA
Recover via ring detection, transmit data (TxD) and reset.
- Power down (sleep) mode. Typ 760µA,
reset recover

conformance

- *Globally-compliant line interface
(Requires compliance testing as mandated by specific country)
- Meets TBR21 for Europe
- Approved to S002 in Australia
- FCC part 15 (for USA) planned
- ROHS Compliant

environment

Operation	20°C to +70°C
Storage	-40°C to +85°C
Humidity	95% at +40°C non-condensing.

tools

A Starter Kit is available for the OEM-MODEM-56C2 module to simplify evaluation and ease design integration. It contains an OEM-MODEM-56C2 modules together with RS232 board, Power Supply, Telephone cables, 9-way serial cable (PC), 10-way TTL header cable, step-by-step Getting Started Guide and CDROM.

ordering information

Order code	Description
FR06000204	OEM-MODEM-56C2 V.90 modem (56Kbps)
OEM-SK-M56C2	OEM-SK-M56C2

accessories

Order code	Description
CABLE-RIBBON-10W	Modem to host equipment ribbon cable

related documentation

Getting Started Guide
OEM-Modem-56C2 Modem Manual
Applications Notes
µWEBox eRouter Family Brochure

about Comtech M2M

Comtech M2M is the UK's leading machine to machine (M2M) communication company. M2M is the ability to connect remote devices with central IT systems and business processes without human intervention. Comtech M2M has created a robust communication platform for monitoring, controlling and managing any remote equipment across wide ranging industries. *extra...* is a wireless digital signage application that operates on the proven wireless communication infrastructure.

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