

ITU-compliant V.34bis Soft Modem

www.streaming-networks.com

Optimized for Philips Nexperia™ media processors (with TriMedia VLIW processor core)



Interoperability

Compatible with US Robotics, Rockwell and Lucent modems

Embedded design

Designed for embedded systems

Robust and Reliable

Thoroughly tested and FCC compliant

OVERVIEW

The Streaming Networks V.34bis soft modem is fully ITU-compliant and is optimized for use with the Philips Nexperia family of media processors (with TriMedia VLIW processor cores). It is scalable, cost-effective, configurable, and easy-to-use.

DESIGNED FOR EMBEDDED SYSTEMS

Aimed at the cost-sensitive market for consumer communications, the modem is especially suited to embedded implementations that require a low memory footprint. In video conferencing systems and remote surveillance set-ups. In Internet appliances, the modem can also be used for fault tolerance.

STANDARDS COMPLIANCE

Supporting bit rates up to 33.6 kbps, the modem is backward compliant with the ITU V.32, V.32bis, V.22, V.22bis, V.23, and V.21 standards. Data compression performs at V.42bis and error correction runs at V.4.2 LAPM.

The modem is fully tested to meet FCC guidelines. It conforms to the TSB-37 and TSB-38 testing standards and the Network Coverage Model, which uses TAS equipment to verify various test loop combinations. The modem has also been tested for interoperability with modems from USRobotics, Rockwell, and Lucent.

MODULAR DESIGN

The modem's modular structure allows designers to pick and choose modules, enabling them to customize performance for specific applications. The modem offers options for reduced training time that enables faster connection times. The modem also includes a well-defined interface for lease-line options, an AT command set, and symmetric/asymmetric bit rates.

RELIABILITY

A well-documented, easy-to-use application programming interface (API) lets developers control library behavior and provides all the functionality for demonstrating and testing the modem.

KEY FEATURES

- Fully ITU-compliant V.34 bis soft modem for
 - Embedded systems with low memory footprint
 - Philips Nexperia family of media processors (with TriMedia VLIW processor cores).
- Bit rates up to 33.6 kbps
- Data compression at V.42bis
- Error correction at V.4.2 LAPM
- Fully test to meet FCC guidelines
 - TSB-37, TSB-38 testing
 - Network Coverage Model
- Interoperable with US Robotics, Rockwell, Lucent
- Modular design for easy customization
 - Flexible training time
 - Lease-line options
 - AT command set
 - Symmetric/asymmetric bit rates
- Well-documented, easy-to-use API

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