

IrDA Protocol Stack

Overview

This software is a protocol stack compliant with IrDA specifications that is developed for embedded application. This IrDA protocol stack enables communication with devices equipped with infrared communication ports, including PCs and PDAs.

Features

- ◆ Versatility Written in ANCI C language and easily portable
- ◆ Expandability Supports optional high-level protocols.
- ◆ High efficiency Operable with minimum memory resources for each application

Specifications

- ◆ Standards Compliant with IrDA DATA standard
- ◆ Supported protocols IrPHY 1.4, IrLAP 1.1, IrLMP 1.1, IrTTP 1.1, IrOBEX 1.2
- ◆ Programming language C (ANSI C: Toshiba C compiler)

Operating Conditions

- ◆ Target MCUs TLCS-900/L1 series, TLCS-900/H1 series
- ◆ Resource requirements ROM 30 Kbytes/ RAM 240 bytes (excluding buffer area)
- ◆ Hardware requirements Timer x 1 (1 ms precision)
Serial channel with IrDA data modulation function

Package Contents

Source code, software manual, sample software

Application Products

PDAs, notebook PCs, communications devices, consumer products

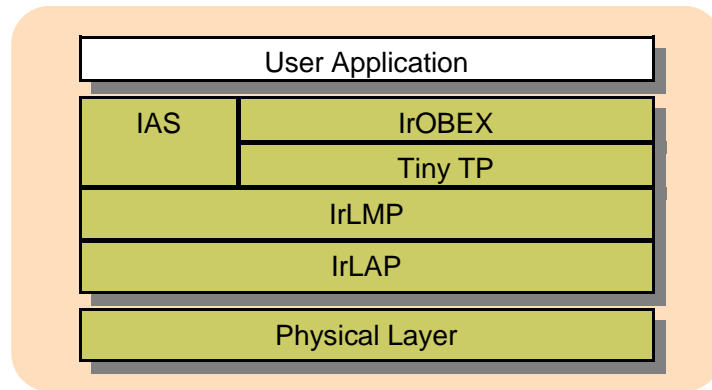
Recommended MCUs

TLCS-900/L1 series, TLCS-900/H1 series

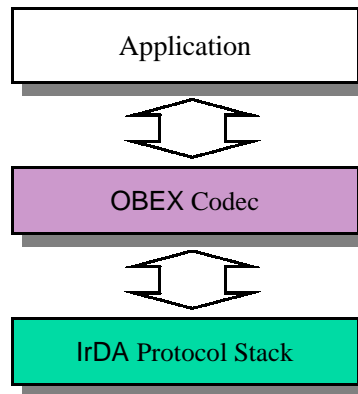
*For details, please contact your local Toshiba office

TOSHIBA Semiconductor Company Website: <http://www.semicon.toshiba.co.jp/index.html>

Protocol Configuration



System Block Diagram



Option Protocols

IrOBEX

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