

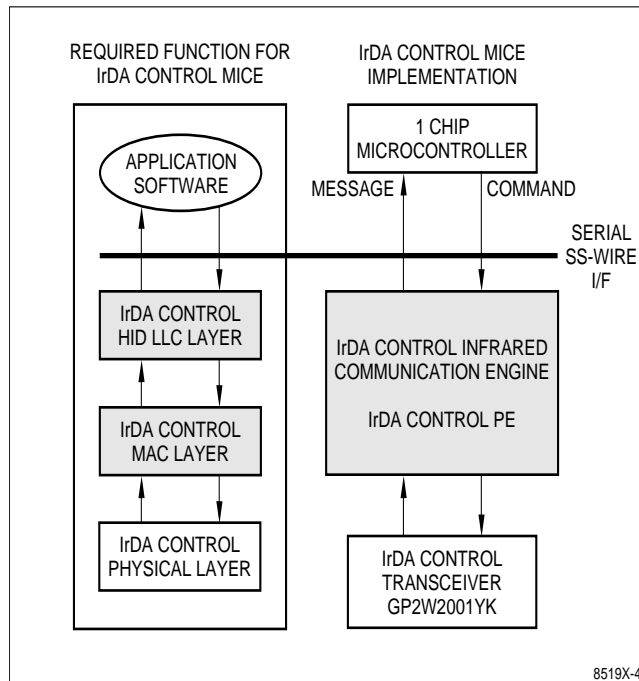
APPLICATIONS:
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Network Computer

LZ8519X IrDA Control Peripheral Engine (PE)

FEATURES

- All-in-One Embedded Communication Controller (Encoder/Decoder, IrDA, IrDA Control MAC Layer, HID LLC Layer)
- Simple Command given by an ordinary μP enables PE to operate every protocol required for IrDA Control Infrared Wireless Communication
- Optimized interface to SHARP IrDA Control Infrared Transceiver (SHARP P/N: GP2W2001YK)
- Serial interface (Synchronous Serial Wire) is prepared for the interface between μP and PE.
- Low current consumption: $I_{CC} = 3 \text{ mA}$ (at operation)
- Supply Voltage: $V_{DD} = 2.7 \text{ V} - 3.3 \text{ V}$

SYSTEM BLOCK DIAGRAM



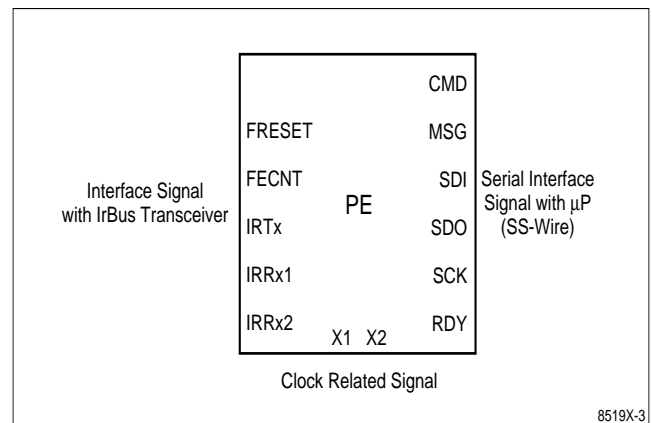
DESCRIPTION

SHARP IrDA Control Peripheral Engine will exchange the information with μP through this serial interface (SS-Wire). Only two attributes, 'Command' and 'Message', a simple software will be used for information transaction. Other protocol stacks are supported by PE and users can simply minimize design effort and time.

The SHARP IrDA Control Peripheral Engine (PE) is an embedded Communication controller, designed to fully support IrDA Control MAC Layer and HID LLC Layer services. It has an optimized interface to SHARP IrDA Control transceiver, and the Serial Interface (Synchronous Serial Wire) for μP .

Since IrDA Control MAC layer and HID LLC layer protocol stacks are already built-into PE, one can easily implement IrDA Control Peripherals with SHARP IrDA Control transceiver and PE.

GENERAL CHARACTERISTICS



SYSTEM DATA FLOW

