Ethernet ICs 3.3V 10/100 BASE TX INTEGRATED PHYCEIVER

Manufacturers	Renesas Technology Corp
Package/Case	SSOP48
Product Type	Interface ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for 1893CFLFT or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

General Description

The IDT1893C is a low-power, physical-layer device (PHY) that supports the ISO/IEC 10Base-T and 100Base-TX Carrier-Sense Multiple Access/Collision Detection (CSMA/CD) Ethernet standards, ISO/IEC 8802-3. The IDT1893C is intended for MII, Node applications that require the Auto-MDIX feature that automatically corrects crossover errors in plant wiring.The IDT1893C incorporates Digital-Signal Processing (DSP) control in its Physical-Medium Dependent (PMD) sub layer. As a result, it can transmit and receive data on unshielded twisted-pair (UTP) category 5 cables with attenuation in excess of 24 dB at 100 MHz. With this IDT-patented technology, the IDT1893CF can virtually eliminate errors from killer packets.The IDT1893C provides a Serial-Management Interface for exchanging command and status information with a Station-Management (STA) entity.The IDT1893C Media-Dependent Interface (MDI) can be configured to provide either half- or full duplex operation at data rates of 10 Mb/s or 100Mb/s.The IDT1893C shares the same proven performance circuitry with the IDT1893BF and is a pin-for-pin replacement of the 1893BF. **Applications:** NIC cards, PC motherboards, switches, routers, DSL and cable modems, game machines, printers, network connected appliances, and industrial equipment.

Features

Supports category 5 cables with attenuation in excess of 24dB at 100 MHz.

Single-chip, fully integrated PHY provides PCS, PMA, PMD, and AUTONEG sub layers functions of IEEE standard.

10Base-T and 100Base-TX IEEE 8802.3 compliant

Single 3.3V power supply

Highly configurable, supports:

Low-power CMOS (typically 400 mW)
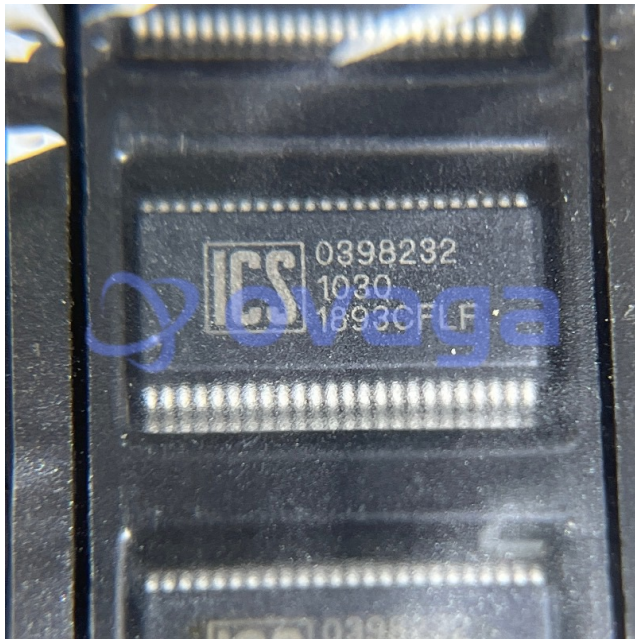
Power-Down mode typically 21mW

Clock and crystal supported

Fully integrated, DSP-based PMD includes:

Small footprint 48-pin 300 mil. SSOP package

Also available in small footprint 56-pin 8x8 MLF2 package

Available in Industrial Temp and Lead Free

Related Products

HS1-3182-8

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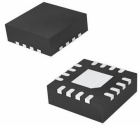
DIP16

HA12187

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SOP8

HA12187FP

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SOP8

ISL3180EIBZ

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SOIC-14

HS1-3182-9+

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16-CDIP (0.300, 7.62mm)
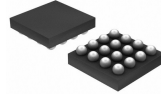
DA7218-00U32

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34-UFBGA, WLCSP

1894K-32LFT

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32-VFQFN

1893BFLF

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SSOP-48