

# TERIDIAN Smart Card Readers, LAN/WAN, & Eval Kits



RoHS Compliant **This product is RoHS compliant.**

## SMART CARD READERS

### 73S1209F/73S1210F SoC Smart Card Reader ICs

The Teridian 73S1209F & 73S1210F are self-contained, SoC smart card reader ICs that are the ideal solution for serially connected ISO-7816 designs. Any serial port connected or stand alone smart card reader can benefit from the unique feature set the Teridian 73S1209F & 73S1210F have to offer. With the 73S1209F & 73S1210F, products like personal PINPads, transparent smart card readers or stand alone smart card readers in embedded systems are easily and economically implemented.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.           | Teridian Part No. | Package Type | Description                               | Price Each |      |      |
|----------------------------|-------------------|--------------|---|------------|------|------|
|                            |                   |              |   | 1          | 25   | 100  |
| <b>783-73S1209F-44IM/F</b> | 73S1209F-44IM/F   | QFN-44       | Contained 80515-SoC Serial Host Interface | 6.08       | 5.39 | 4.08 |
| <b>783-73S1210F-68IM/F</b> | 73S1210F-68IM/F   | QFN-68       | Contained 80515-SoC Serial Host Interface | 8.18       | 7.26 | 5.49 |

### 73S1215F/73S1217F SoC Smart Card Reader ICs

The Teridian 73S1215F & 73S1217F are state-of-the-art, self contained SoC smart card reader ICs that are ideal solutions for any USB connected ISO-7816 design. Any USB connected or stand alone smart card reader can benefit from the unique feature set the Teridian 73S1215F & 73S1217F have to offer. With the 73S1215F & 73S1217F, products like the personal PINPads, transparent smart card readers or smart card readers built into laptops, desktops and peripherals (keyboards etc.) can now take advantage of the USB connectivity with no impact on the cost compared to traditional unconnected solutions.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.           | Teridian Part No. | Package Type | Description  | Price Each |      |      |
|----------------------------|-------------------|--------------|--|------------|------|------|
|                            |                   |              |  | 1          | 25   | 100  |
| <b>783-73S1215F-44IM/F</b> | 73S1215F-44IM/F   | QFN-44       | USB PINpad 80515, SoC Dual Supply Required             | 7.78       | 6.90 | 5.22 |
| <b>783-73S1215F-68IM/F</b> | 73S1215F-68IM/F   | QFN-68       | USB PINpad 80515, SoC Dual Supply Required             | 9.13       | 8.10 | 6.13 |
| <b>783-73S1217F-68IM/F</b> | 73S1217F-68IM/F   | QFN-68       | USB PINpad 80515-SoC, Power Management Supply required | 9.88       | 8.77 | 6.63 |

### 73S8009x Electrical Interfaces

The 73S8009x circuits are transparent electrical interfaces that allow a host processor to communicate with all types of smart cards. A transparent interface implies that an image of each smart card signal is provided by the interface to the host processor and translated to the appropriate digital level. This configuration provides full control to the host of the card management and card activation / deactivation. Additionally, the architecture reduces die size to a minimum, making the 73S8009x circuits the most cost-effective on the market.

The 73S8009C implements a DC-DC converter thus requiring a single power supply whose voltage range can be as wide as +2.7V to +6.5V. Additionally, the 73S8009C features built-in power switches, allowing the device to operate either from a +5V USB bus or from a battery/system power supply.

The 73S8009R generates the smart card power supply (VCC) with an LDO regulator - the IC requires two (2) distinct power supplies.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.           | Teridian Part No. | Package Type | Description  | Price Each |      |      |
|----------------------------|-------------------|--------------|--|------------|------|------|
|                            |                   |              |  | 1          | 25   | 100  |
| <b>783-73S8009C-20IM/F</b> | 73S8009C-20IM/F   | QFN-20       | ISO 7816 Transparent Electrical Interface & Power Management | 2.76       | 2.23 | 1.57 |
| <b>783-73S8009C-32IM/F</b> | 73S8009C-32IM/F   | QFN-32       | ISO 7816 Transparent Electrical Interface & Power Management | 3.04       | 2.46 | 1.73 |
| <b>783-73S8009R-IL/F</b>   | 73S8009R-IL/F     | QFN-20       | ISO 7816 Smart Card Interface (ICC)/w/LDO                    | 2.72       | 2.20 | 1.55 |
| <b>783-73S8009R-IM/F</b>   | 73S8009R-IM/F     | SO-28        | ISO 7816 Smart Card Interface (ICC)/w/LDO                    | 2.40       | 1.94 | 1.37 |
| <b>783-73S8009R-DB</b>     | 73S8009R-DB       | -            | Demo Board for 73S8009R Series                               | 172.00     | -    | -    |

### 73S8023C Smart Card Interface IC

The 73S8023C is a single smart card interface IC, compliant to the electrical requirements of ISO-7816-3, EMV 4.0 and NDS electrical specifications. The device can be used in systems that require the support of ISO 7816 smart cards, such as Conditional Access cards in digital TV (Set-Top-Box, Integrated DTV, PVRs etc), credit cards in payment terminals (Point of Sale, Pay-per-View in Set-Top-Box etc.) or general-purpose smart cards (identity, loyalty, control access etc.). The 73S8023C implements a step-up converter and requires a single +3.3V standard power supply.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.         | Teridian Part No. | Package Type | Description                      | Price Each |      |      |
|--------------------------|-------------------|--------------|----------------------------------|------------|------|------|
|                          |                   |              |                                  | 1          | 25   | 100  |
| <b>783-73S8023C-IM/F</b> | 73S8023C-IM/F     | QFN-32       | ISO 7816 Electrical Interface IC | 2.76       | 2.23 | 1.57 |

### 73S8024RN Smart Card Interface ICs

The 73S8024RN is a single smart card interface IC, compliant to the electrical requirements of ISO-7816-3, EMV 4.0 (EMV2000) and NDS electrical specifications. It is available either in a standard SO28 package, or in a 32-pin QFN package (5 x 5 x 0.8mm), making it the smallest solution available today in the market. It can be used in conjunction with any host microcontroller that can support the smart card protocol layer. In its SO28 package option, the Teridian 73S8024RN is an advantageous replacement for the industry-standard device TDA8004 since it offers better performance and requires fewer external components.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.            | Teridian Part No. | Package Type | Description  | Price Each |      |      |
|-----------------------------|-------------------|--------------|--|------------|------|------|
|                             |                   |              |  | 1          | 25   | 100  |
| <b>783-73S8024RN-20IM/F</b> | 73S8024RN-20IM/F  | QFN-20       | Smart Card Interface IC w/LDO Regulator for A/V Applications | 2.52       | 2.04 | 1.44 |
| <b>783-73S8024RN-32IM/F</b> | 73S8024RN-32IM/F  | QFN-32       | Smart Card Interface IC w/LDO Regulator for A/V Applications | 2.64       | 2.13 | 1.50 |
| <b>783-73S8024RN-IL/F</b>   | 73S8024RN-IL/F    | SOIC-28      | Smart Card Interface IC w/LDO Regulator for A/V Applications | 2.88       | 2.33 | 1.64 |
| <b>783-73S8024RN-DB</b>     | 73S8024RN-DB      | -            | Demo Board for 73S8024RN Series                              | 142.00     | -    | -    |

## LAN

### 10/100 Ethernet PHYs

The 78Q8430 with integrated hardware IPChecksum and 32KB of configurable SRAM is ideal for applications where network throughput performance cannot compromise the low latency or performance requirements of mission critical functions like audio or video processing.

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.            | Teridian Part No. | Package Type | Description  | Price Each |      |      |
|-----------------------------|-------------------|--------------|--|------------|------|------|
|                             |                   |              |  | 1          | 25   | 100  |
| <b>783-78Q2123/F</b>        | 78Q2123/F         | QFN-32       | 5x5mm QFN Includes HP Auto-MDIX Commercial Temperature Operating Range | 2.84       | 2.29 | 1.62 |
| <b>783-78Q2133/F</b>        | 78Q2133/F         | QFN-32       | 5x5mm QFN Includes HP Auto-MDIX Industrial Temperature Operating Range | 3.68       | 2.97 | 2.09 |
| <b>783-78Q2123-DB</b>       | 78Q2123-DB        | -            | Demo Board for the 78Q21x3 Series                                      | 170.00     | -    | -    |
| <b>783-78Q8430-100CGT/F</b> | 78Q8430-100CGT/F  | LQFP         | High Performance Ethernet Controller                                   | 8.00       | 7.10 | 5.38 |

## TOOLS/EVALUATION KITS

For quantities 500 and up, call for quote.

| MOUSER STOCK NO.           | Teridian Part No. | Description  | Price Each |
|----------------------------|-------------------|--|------------|
|                            |                   |  | 1          |
| <b>783-80515-FPBM-TFP2</b> | 80515-FPBM-TFP2   | Stand Alone Flash Programmer Board Meter & 73S12XX | 255.00     |
| <b>783-STM1E-SFP02</b>     | STM1E-SFP02       | 155 Mbps Copper Different Frame/Supply Ground      | 120.00     |
| <b>783-STM1E-SFP08</b>     | STM1E-SFP08       | 155 Mbps Copper Same Frame/Supply Ground           | 120.00     |
| <b>783-STM1E-SFP-EVK</b>   | STM1e-SFP-EVK     | Evaluation Kit for STM1e-SFP Series                | 187.00     |