

Micrel... *de facto* Standard for 5-Port Ethernet Switches

Applications

Industrial Ethernet Applications
Media Converter, CPE for FTTH
Fiber-to-the-Office
Remote Console Management
Residential Gateway
Standalone Switch
Wireless LAN AP + Router
Integrated DSL Router
Integrated Cable Modem Router
VPN/Firewall Router
VoIP Gateway
Set-Top Box + Switch



Advantages

- ◆ Most Widely Accepted 5th Generation, 5-Port Switch
- ◆ First in the Industry with Programmable Traffic Rate Limiting: Ingress/Egress, Hi/Lo Priority, Granularity at 32kbps Increments
- ◆ PHY Power Save Mode and Auto Cross-Connect
- ◆ Supports Auto MDI/MDIX Enable/Disable with Strap-in Option
- ◆ Provides Local/Remote PHY and MAC Loopback⁽¹⁾
- ◆ 100BaseFX Mode on Ports 4 and 5
- ◆ Supports Spanning Tree Protocol⁽²⁾
- ◆ Fiber-to-Copper Optimization for FTTH/Media Converter
- ◆ IGMP Snooping v1, v2 (RFC 1112, 2236) - Multicast Filtering⁽²⁾
- ◆ Packet Size up to 1916 bytes
- ◆ SPI Slave Bus (up to 5MHz) for Register Configuration and Access⁽²⁾
- ◆ Extensive MIB Statistics Support — 34 MIB Counters per Port⁽²⁾
- ◆ Dual MII Configuration: 4 + 1 + 1 (LAN, MII-CPU, MII-WAN)
- ◆ 802.1Q VLAN Tag/Untag⁽²⁾ and Port-Based
- ◆ QoS/CoS Prioritization and 802.1P
- ◆ Port-Mirroring, Monitoring: TX/RX Modes to Any Port
- ◆ Per Port-Based Programmable Broadcast Storm Protection
- ◆ Unmanaged and Managed Switches Available with Lead-Free Components
- ◆ PQFP-128, Low Power Consumption
- ◆ Industrial Temperature: -40° to +85°C
- ◆ 2.5V or 3.3V I/O and 1.8V Core for MA and XA

Notes:

1. MA only.
2. M and MA only.

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KS8995MA, KS8995XA, KS8995X, KS8995M, KS8995MI Evaluation Boards^(1, 2)

Lead-Free Products⁽³⁾

KSZ8995M

5-Port Managed Switch
PQFP-128

KSZ8995X

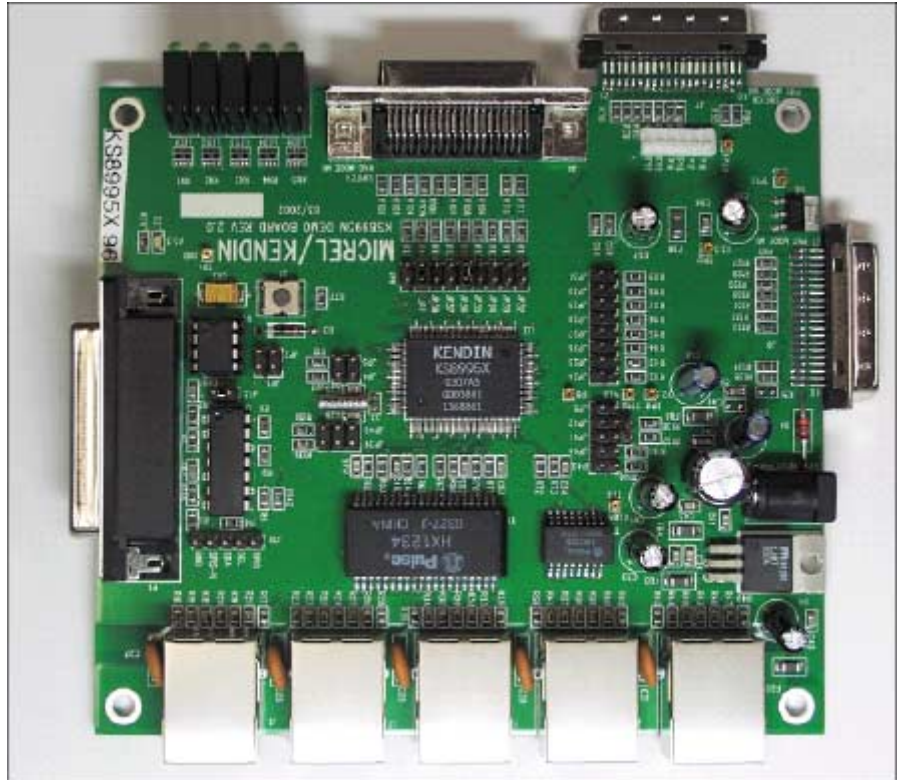
5-Port Unmanaged Switch
PQFP-128

Evaluation Kit Contents

Evaluation Board
Power Supply and Power Cable
Evaluation Kit CD-ROM

CD-ROM Contents

Application Notes
Board Schematics
Board Support Package (BSP):
– EEPROM Utilities
– SmartBits Configuration Files
– Management Software
Board User Guides
Product Briefs
Datasheets



Available Collateral for Easy Design-In

Application Notes
Board User Guides
Evaluation Board Schematics
Gerber Files
OrCAD Schematics



Notes:

1. The Evaluation Board layout is identical for the entire KS8995 product family.
2. KS8995MA and KS8995XA are recommended for use in new designs.
3. Micrel's lead-free products are denoted by the prefix KSZ.

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