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MARVELL™

88E6050, 88E6051, 88E6052
5-Port Fast Ethernet Switches

The 88E6050, 88E6051, and 88E6052 are each single chip, integrated multi-port Fast Ethernet switches for SOHO (Small Office -Home Office) Standalone Switches, Media Converter, and SOHO Gateway Applications. The devices support port configurations of 5-ports (88E6050, 88E6051, 88E6052), and 6-ports or 7-ports (88E6052). Both devices contain: five 10BASE-T/ 100BASE-TX PHY transceivers for Copper RJ-45 cable, one PHY which can be used to support 100BASE-FX Fiber cable; five (88E6050, 88E6051) or seven (88E6052) independent Fast Ethernet media access controllers (MACs); a high-speed non-blocking switch fabric; and a high-performance address lookup engine; and 1 Mbit packet memory

True Plug-n-Play is supported with Auto Polarity, Auto-Negotiation in all the PHYs, Auto-MDI/ MDIX auto-detec-tion and operation. Back-pressure and pause-frame flow control are included to support zero packet loss under temporary traffic congestion. The lookup engine allows up to 4K active nodes (88E6051, 88E6052) or 1K active nodes (88E6050) to be connected with the switch. Internet Quality of Service (QoS) support is included in the 88E6051 and 88E6052. Packets are directed into one of four traffic class priority queues, which are typically segmented and prioritized into management, voice, video, and data streams. Packet priorities are based on the type and contents of the frame, or based on the ingress port.

Benefits:

- Lowest cost solution for SOHO switch and entry-level public network interface
- 5 port 10/ 100BASE-T standalone switch
- 4 port 10/ 100BASE-T + 1 port 100BASE-FX switch and media translator
- 5 port 10/ 100BASE-T + 1 port CPU Router MII interface (88E6052)
- 5 port 10/ 100BASE-T + 1 port CPU Router MII interface + 1 port Wireless LAN interface (88E6052)
- 5 port 10/ 100BASE-T switch with Firewall Router

Features:

- Single chip integration of a 5-port or 7-port Fast Ethernet switch with fully compliant IEEE802.3 and IEEE802.3u PHYs and a true non-blocking memory-based switch fabric
- 88E6050 and 88E6051 support five PHYs or four PHYs and one MII
- 88E6052 supports five PHYs plus two MII interfaces
- Quality of Service support with four priorities (88E6051, 88E6052)
- MII Interfaces support both a MAC Mode (Forward MII) or PHY Mode (Reverse MII)
- Each port works at 10 Mbps or 100 Mbps, full-duplex or half-duplex mode
- Port based VLANs supported in any combination (88E6051, 88E6052)
- Port 0 can be configured as copper (100BASE-TX or 10BASE-T) or fiber (100BASE-FX)
- Auto-MDI/ MDIX crossover for 100BASE-TX and 10BASE-T ports
- Extra high performance on up to 150 meters CAT5 UTP (unshielded twisted pair) cable l Flexible LED support for Link, Speed, Duplex Mode, Collision, and Tx/ Rx Activities
- Low power dissipation
- 128-pin PQFP package

- No need for any external memory
- Smart power management control
- Small package saves board space

Applications:

- Five-port Fast Ethernet (10/ 100 Mbps) SOHO Integrated Switch (88E6050, 88E6051, 88E6052)
- Firewall Router QoS Switch with four 10/ 100BASE-T LAN ports (88E6051, 88E6052)
- Five-port QoS Switch with Spanning Tree Support (88E6052)
- Firewall Router QoS Switch w/ four 10/ 100BASE-T LAN Ports & one 10/ 100BASE-T WAN port with an extra MII port for an optional wireless PHY (88E6052)
- Firewall Router QoS Switch w/ five 10/ 100BASE-T LAN Ports & an MII port for a WAN PHY (88E6052)

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