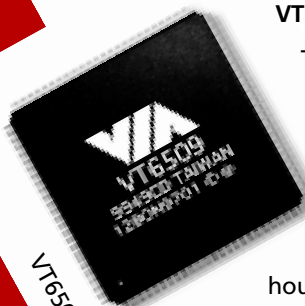# VIA Atlantic

8-/9-port Switch Controller Solutions

The VIA Atlantic family of switch controllers provides network system manufacturers the ideal platform for building intelligent, cost-effective, and scalable 8-/9-port switches for small to medium sized businesses.

The VIA Atlantic (VT6508) and VIA Atlantic SMF (VT6509) 8-/9-port 10/100 Base-T single chip switch controllers combine the benefits of network scalability, manageability and plug and play connectivity. Their highly integrated feature set enables network system manufacturers to build next-generation, intelligent switches for the fast-growing small to medium business market segment at price points only previously possible with unmanaged switches and repeaters.

VT6508 VIA Atlantic

The VIA Atlantic is an 8-port intelligent switch controller that utilizes fast store and forward architecture to ensure low latency and high data integrity. All 8 ports can be individually configured to connect to both 10Base-T and 100Base-T devices through auto sensing or manual selection. IEEE 802.3, 802.3.u and 802.3X specifications are fully supported. The VIA Atlantic is housed in a 128-pin PQFP package.
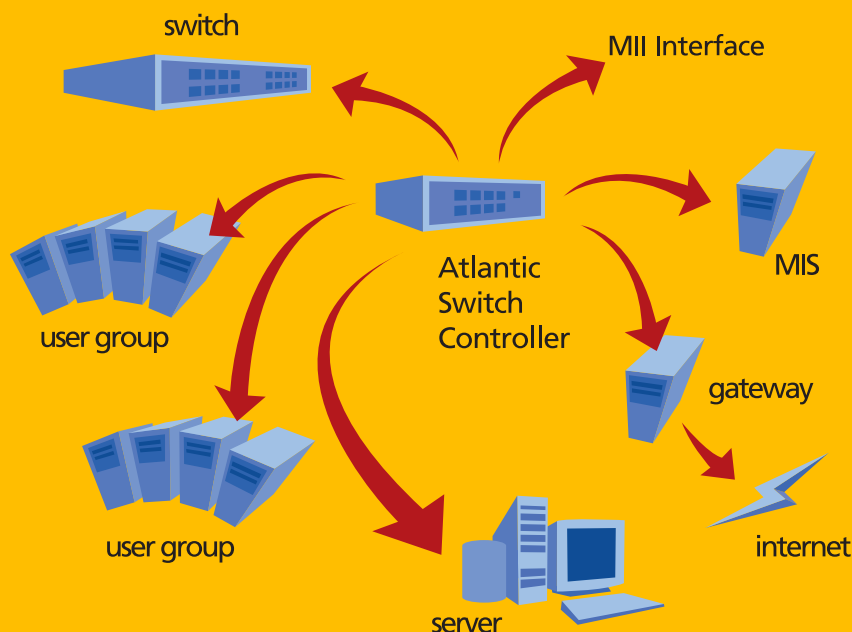
VT6509 VIA Atlantic SMF (Smart Management Functions)

The VIA Atlantic SMF, an intelligent 9-port switch controller has all the features of the VIA Atlantic with the addition of smart management functions. With an MII interface for flexible 10 Base-T, 100 Base-T or 100 Base-FX expansion capabilities and support for smart management functions. The VIA Atlantic SMF also allows Trunking, Port Mirroring and supports the Spanning Tree Protocol. Any of the VIA Atlantic SMF's 9 ports can be used as the sniffer port to monitor other ports. The VIA Atlantic SMF is housed in a 208-pin PQFP package.

VT6508

VT6509

VIA
We Connect

VIA Atlantic / VIA Atlantic SMF

VIA ATLANTIC / ATLANTIC SMF

switch

MII Interface

Atlantic Switch Controller

MIS

gateway

internet

user group

user group

server

BENEFITS OF VIA ATLANTIC-BASED NETWORK SWITCHES

• **Simplicity**
Provides a simple low maintenance plug and play network interconnect system for small to medium size businesses.

• **Scalability**
Highly scalable feature set allows system manufacturers to enable or disable a range of features to best meet their target price point.

• **Economical**
Highly integrated design drives down overall switch manufacturing costs enabling the migration from unmanaged switches and repeaters to intelligent next generation switch solutions.

FEATURES

VIA Atlantic

• Single chip 8 port RMII Fast Ethernet switch controller

• Auto-sensing or manual selection for 10 and 100Mbps speed settings

• IEEE 802.3X flow control for full duplex operation

• Optional back pressure for half duplex operation

• Performs full wire-speed forwarding

• Support for port trunking

• Sniffer function monitors network traffic

• 128-pin PQFP package for the VT6508, 208-pin PQFP package for the VT6509

VIA Atlantic SMF

• Single chip 9-port RMII Fast Ethernet switch controller

• CPU Interface to support management functions

• Reversed MII interface for on-board CPU with embedded MAC, e.g. ARM

• Trunking
  - Port-based Trunking
  - Two 2-ports trunk groups
  - Load balance

• Port Mirroring
  - Any of 8/9 ports could be Sniffer Port
  - Monitor any other ports

• Spanning Tree
  - Support Spanning Tree Protocol (STP)and Bridge Protocol Data Unit (BPDU)

• STP packets generated by CPU

www.viatech.com

VIA We Connect