



## UNMANAGED REFERENCE DESIGN

### FEATURES

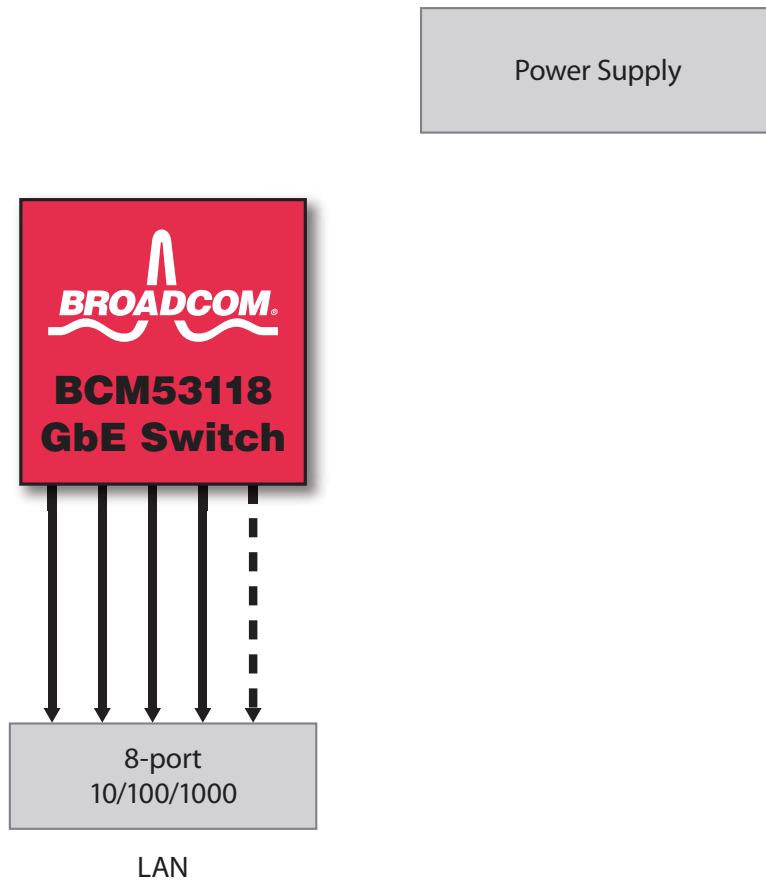
- **BCM953118R8G**
  - Unmanaged Gigabit Ethernet (GbE) switches
  - LoopDTech™ and CableChecker™ – LoopDTech on/off switch and buzzer warning sound
  - Discrete magnetics for low cost designs
  - EEPROM for configuration—jumbo frame and LoopDTech pre-enabled
  - Small form factor for low cost design

### SUMMARY OF BENEFITS

- **Industry-first 8-port GbE switch in 65 nm process technology for the lowest power consumption**
- **Third-generation Broadcom switch with Ethernet AV function**
  - Guaranteed latency
  - Guaranteed BW
  - Synchronous timing
- **Lowest power consumption in the industry**
- **Two-layer board for unmanaged; EEPROM for low cost configuration (unmanaged); low cost components for the most cost-effective designs**
- **Line rate port switching performance, including jumbo frames**

**BCM953118R8G (Front View)**





**BCM953118R8G Reference Board Block Diagram**

**Developing Your Switch**

The BCM953118R8G is the most integrated and lowest cost solution for 8-GbE port unmanaged residential/SOHO gateway switches. In addition, the reference designs provide high-quality and industry-proven software for residential/SOHO gateway applications and enables the accelerated development of the following types of switches:

- Small form factor unmanaged designs

**Documentation**

Documentation for the BCM53118 device, and reference design is available online through docSAFE.

The documents available include:

- Schematics, Allegro®, Gerber layout, EMI test reports
- Reference design user manual
- BCM53118 data sheet
- Application notes, including Ethernet AV introduction and usage

**Ordering Information**

- BCM953118R8G—8-port GbE, unmanaged

For additional ordering information for the BCM953118R8G reference design, contact your local sales representative.

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**BROADCOM CORPORATION**

5300 California Avenue  
Irvine, California 92617

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Phone: 949-926-5000  
Fax: 949-926-5203  
E-mail: info@broadcom.com  
Web: www.broadcom.com