



IP175G 5 Port 10/100M Ethernet Integrated Switch (85nm /Extreme Low Power, PWMT® and AFT®)

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General Description :

IP175G is fabricated with advanced CMOS(85nm/Low Power) technology and only requires a 3.3V single power supply. This feature makes IP175G consumes very low power, such as the full load operation (100Mbps_FDX x8) and embedded LDO, overall power consumption only takes 0.55w.

IP175G also supports Power Management Tool (PWMT®) for IEEE 802.3az, APS, WOL+ and PWD for Green Power. While two link devices have no IEEE 802.3az capability, IP175G use WOL+ to change link from 100Mbps to 10Mbps for saving power.

The PWD of IP175G is designed for power down switch immediately by pushing a button, user don't plug out the power adapter. Push the button again, it will power on immediately.

Except Low Power and Rich Power Saving method, IP175G supports AFT® for saving Customer Testing Cost. By using a push button and cables, IP175G will Auto test completely by itself.

Feature :

- 5 port Embedded 10/100 PHY Switch Controller
- Support 5 100BaseTX or 4 100Base TX + 1 FX
- Support Auto MDI-MDIX function
- Power Management Tool (PWMT®)
 - APS, auto-power saving while Link-off
 - IEEE 802.3az protocol based power saving & 10Mbps Te for 10Mbps WOL+®, light traffic power saving
 - PWD, force-off power saving
- Support Auto Factory Test (AFT®)
- Single Power 3.3V supply
- Built in Vcore Regulator
- Two Priority queues per port
- Support 802.1p & DiffServ based QoS
- QoS
 - Port base
 - 802.1p

- IP DiffServ IPV4/IPV6
- TCP/UDP port number
- Pins configure ports priority (VIP port)
- Support max forwarding packet length 1552/1536 bytes option

- Support port mirror function

- Support 1k MAC address

- Support broadcast storm protection
- Support port trunking (LACP)
- Support 16 VLAN (IEEE Std 802.1q)
 - Port-based/Tagged-based VLAN
 - Support insert, remove tag
- Built-in 50 ohm resistors for simplifying BOM
- 85nm Process
- Package and operation temperature
- IP175G: 48 Pin QFN(6x6), 0~70°C

Application :

- 5 port 10/100 SOHO Switch
- 4TX+1FX Switch

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