

Summary :

	RTL8305S	RTL8305SB
MAC level		
Lookup table	1K entries	1K + 16 CAM
QoS	X	Port-based/802.1p/DS/IP (partially per-port setting)
Priority queue (weighted ratio)	0	2 (4,8,16,infinite)
802.3x	Yes	Yes
802.3x frame SID	fixed	fixed
Back-pressure	Yes (collision-based, 28pass1)	Yes (mixed mode, enhanced 4 types)
Tag insert/remove	X	Yes (priority, per port)
Ingress filtering	X	Drop non-VLAN member or without tag packets
Broadcast storm control	Yes	Yes
Aggressive backoff	X	Yes (only in congestion)
Excessive collision drop	X	X.
Max. packet length	1536	1536/1552
Port trunking (ports/trunk)	X	X
Aging time	300sec	300sec
SID translation	X	Yes
VLAN	X	Port based / 802.1Q (up to 5 VLAN)
Leaky VLAN	X	Yes
ARP VLAN	X	Yes
802.1D filtering	X	Yes (optional)
Loop detection	X	Yes

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PHY level		
100BaseFX	X	5 port (reduced interface) support duplex/flow control option (per group setting)
PHY r/w register	X	Yes (the same interface with EEPROM)
Force mode	X	Yes (duplex/speed/flow control, per group)
Nway ability setting	X	Yes (duplex/speed/flow control, per-group)
Auto crossover	X	Yes
System level		
MII/SNI MAC mode	Yes	Yes
EEPROM inf.	X	Yes(optional)
Port 4 mode	UTP / MII Auto-switch	UTP / MII Auto-switch
LED/port	3	3
Clock input	25MHz crystal	25MHz crystal
Extra Clock output	25MHz	25MHz
Power saving mode	Yes	Yes
Power consumption	610mA(2.01W)	310mA(1.17W)
Power	3.3V	2.5/3.3V
Package	PQFP 128	PQFP 128
Process	0.35um	0.25um