Blackbox LBS218AE Smart Switch
VLAN Setting Guide

1. VLAN Control page on Switch

```
Port Configuration
--------------------------------------------------
            P0   P1   P2   P3   P4   P5   P6   P7
 1.MDIX  :  Y    Y    Y    Y    Y    Y    Y    Y
 2.FX    :  N    N    N    N    N    N    N    N
 3.PVID  :  0    0    0    0    0    0    0    0
 4.Pri   :  2    2    2    2    2    2    2    2
 5.PriOn :  N    N    N    N    N    N    N    N
 6.TOS   :  N    N    N    N    N    N    N    N
 7.Tag   :  N    N    N    N    N    N    N    N
 8.Full  :  Y    Y    Y    Y    Y    Y    Y    Y
 9.SPEED :100  100  100  100  100  100  100  100
10.Nway  :  Y    Y    Y    Y    Y    Y    Y    Y
11.F/Ctr :  Y    Y    Y    Y    Y    Y    Y    Y
12.P/Dis :  N    N    N    N    N    N    N    N

Nway:Auto Negotiation, F/Ctr:Flow Control, P/Dis:Port Disable

Please select Port ?( 0-7 for PORT0~7 q=Exit)
```

2. VLAN PVID Setup page on Switch

```
PVID VLAN Display
------------------------------------------------
          P0   P1   P2   P3   P4   P5   P6   P7
VLAN0      1    1    1    1    1    1    1    1
VLAN1      0    0    0    0    0    0    0    0
VLAN2      0    0    0    0    0    0    0    0
VLAN3      0    0    0    0    0    0    0    0
VLAN4      0    0    0    0    0    0    0    0
VLAN5      0    0    0    0    0    0    0    0
VLAN6      0    0    0    0    0    0    0    0
VLAN7      0    0    0    0    0    0    0    0

Please select VLAN Group ?( 0-7 for Group0~7 q=Exit) _
```

3. Setting Giide:

LBS218AE support port-base VLAN with PVID value. Here is the short sample for how to set up VLAN

"VLAN Control" page in Switch		"VLAN PVID Setup" page in Switch								
			P0	P1	P2	P3	P4	P5	P6	P7
3. PVID	**P0 P1 P2 P3 P4 P5 P6 P7** 0 1 2 3 4 5 6 7	VLAN0	1	0	0	1	0	0	0	0
		VLAN1	0	1	0	1	0	0	0	0
		VLAN2	0	1	0	1	0	0	0	0
		VLAN3								
		VLAN4								
		VLAN5								
		VLAN6								
		VLAN7								

This column identify Port# is to be in and see which VLAN group # P0 means switch RJ-45 port#1 P1 means switch RJ-45 port#2 go by this order. Exp: P1 is to see VLAN1, P4 is to see VLAN4	1 means choose to be communicate. Exp: In same VLAN#, any port set 1 can talk to only each other. Set 0 mean can't communicate.

How to set:
Exp:
We want P3 can talk to P0-P3 (Switch RJ-45 port# 1-Port#4), but P0, P1, P2, P4-7 can't talk to each other. **Then:**
Step1:
In PVID column, P0 is in VLAN0, so in VLAN PVID Setup" page VLAN0, we set P0 to be 1, and P1, P2, P4-P7 to be 0, P3 to be 1. The P0 can talk to P3.
Step2:
In PVID column, P1 is in VLAN1, it is allowed to communicate with only P3. So in VLAN PVID Setup" page VLAN1, we set P0, P2, and P4-P7 to be 0. P1and P3 to be 1.
Step3:
In PVID column, P2 is in VLAN2, and it's in same permission with P1. In VLAN PVID Setup" VLAN2, we set P0, P1, to be 0. P2 and P3 will be 1.
Step4:
In PVID column, P3 is supposed to communicate P0-P2. So in VLAN PVID Setup" page VLAN3, we set P0-P2 and P3 to be 1. For P4-P7, all will be 0 in VLAN PVID Setup" page VLAN0-VLAN7,