

# Panduan Instalasi Awal MikroBits Manageable Switch 24 Port (Passive PoE)

www.mikrotik.co.id

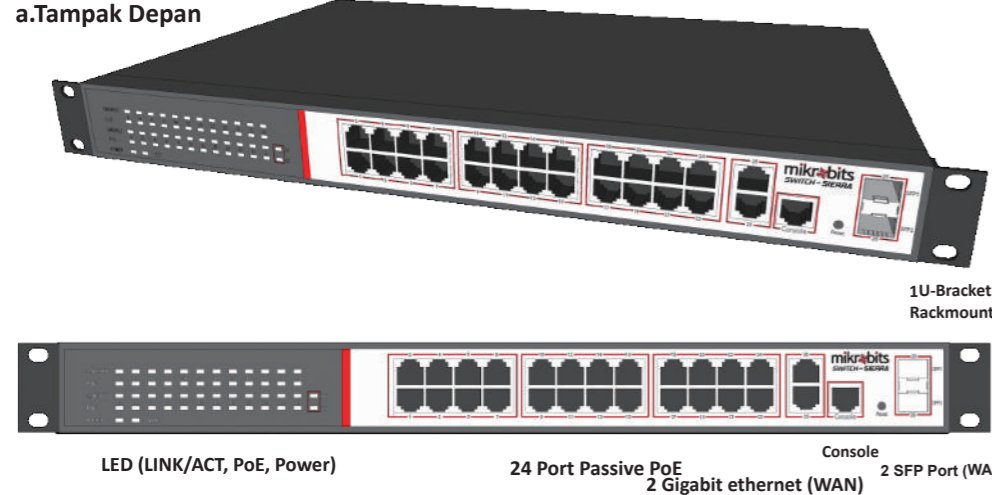
## PERINGATAN!

1. Perangkat Switch ini dikonfigurasi menggunakan Power Cord, dengan Input : 100-240VAC , 50-60Hz 300 Watt Internal Power 24VDC
2. Jangan merusak segel dan mengubah konfigurasi jumper pada board.

## 24port PoE Out Always ON POWER !!

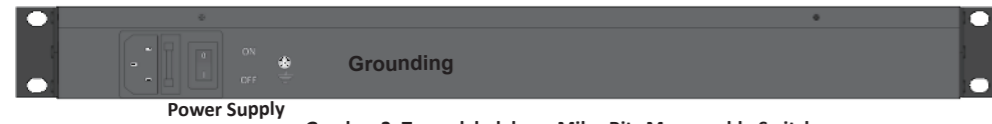
### 1.KETERANGAN PRODUK

#### a.Tampak Depan



Gambar-1. Tampak Depan MikroBits Manageable Switch

#### b. Tampak Belakang



Gambar-3. Tampak belakang MikroBits Manageable Switch

#### c. Pemasangan Modul SFP



WAN pada produk ini terdapat dua pilihan, yaitu bisa menggunakan Gigabit Ethernet pada ether 25 & 26 atau menggunakan SFP Transceiver Gigabit pada port 25 & 26.

Gambar-4. Pemasangan modul SFP MikroBits Manageable Switch

## 2. MENGAKTIFKAN MikroBits Switch



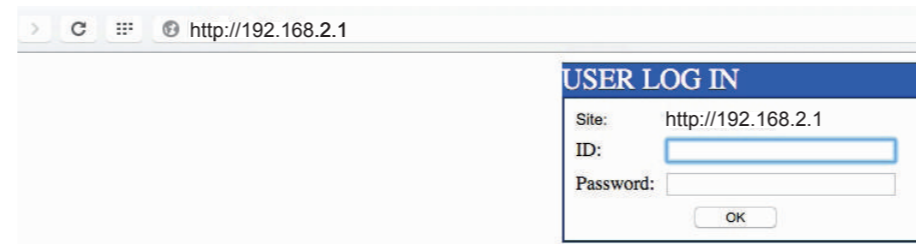
MikroBits Manageable Switch bisa langsung aktif ketika power kabel listrik ditancapkan seperti (Gambar-5)

Gambar-5. Mengaktifkan (power on) MikroBits Manageable Switch

## 3. MENGAKSES SWITCH

Mengakses MikroBits Switch bisa dilakukan menggunakan metode webfig

a. Buka web browser, dan ketik <http://192.168.2.1>, kemudian enter.



Gambar-6. Login page MikroBits Manageable Switch

b. Masukkan user name dan password dengan pengaturan awal

User name : **admin**  
Password : **system**

c. Jika user name atau password yang di masukkan salah, maka akan muncul tampilan seperti gambar dibawah. Selanjutnya silahkan periksa kembali dan masukkan username dan password yang benar.



Gambar-7. Notifikasi pages username dan password yang salah

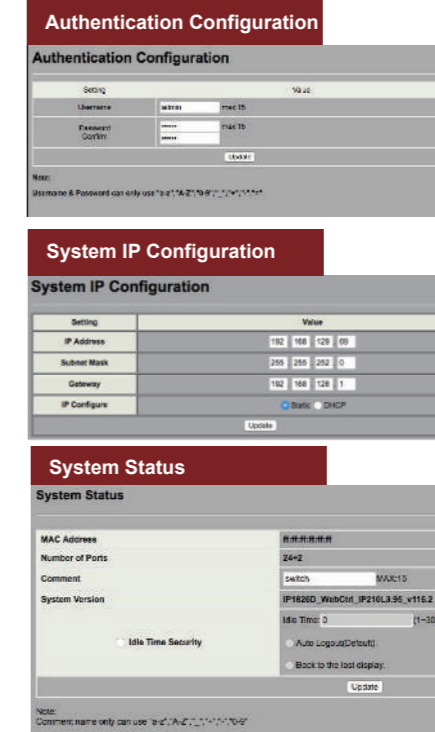
## 4. FITUR-FITUR MIKROBITS MANAGEABLE SWITCH

Administrator	Authentication Configuration System IP Configuration System Status Load default setting Firmware Update Reboot Device
Port Management	Port Configuration Port Mirroring Bandwidth Control Broadcast Storm Control
VLAN Setting	VLAN mode VLAN Member Multi to 1 Setting Non-Association Port Setting
Per Port Counter	Port Counter
QoS Setting	Priority Mode Port, 802.1p , IP/DS based TCP/UDP Port Based
Security	MAC Address Binding MAC Address Scan TCP/UDP Filter Web Security
Spanning Tree	STP Bridge Settings STP Port Settings Loopback Detection
Trunking	Link Agregation Settings
DHCP Relay Agent	DHCP Relay Agent Relay Server VLAN MAP Relay Agent
Backup/Recovery	
Miscellaneous	
SNMP Settings	
Logout	

Gambar-8. Fitur-fitur MikroBits Switch

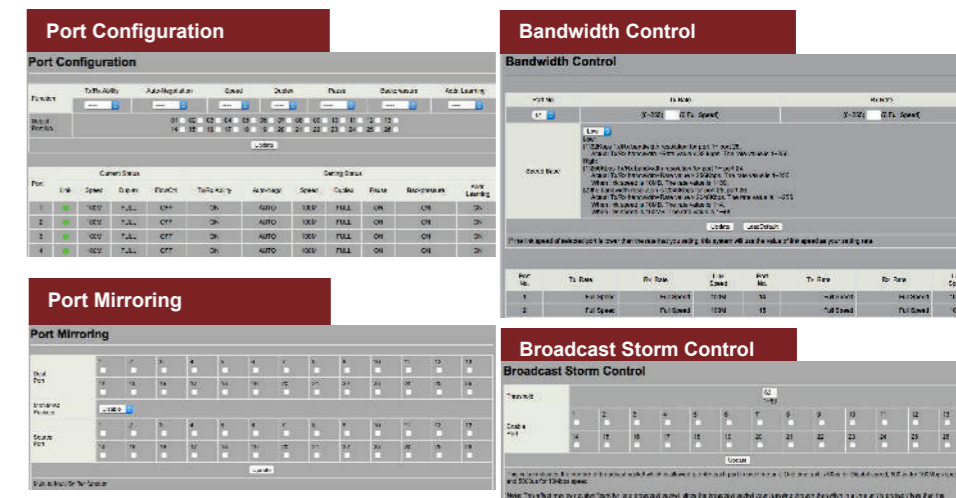
## 5. DETAIL FITUR MIKROBITS SWITCH

### a. Fitur Administrator



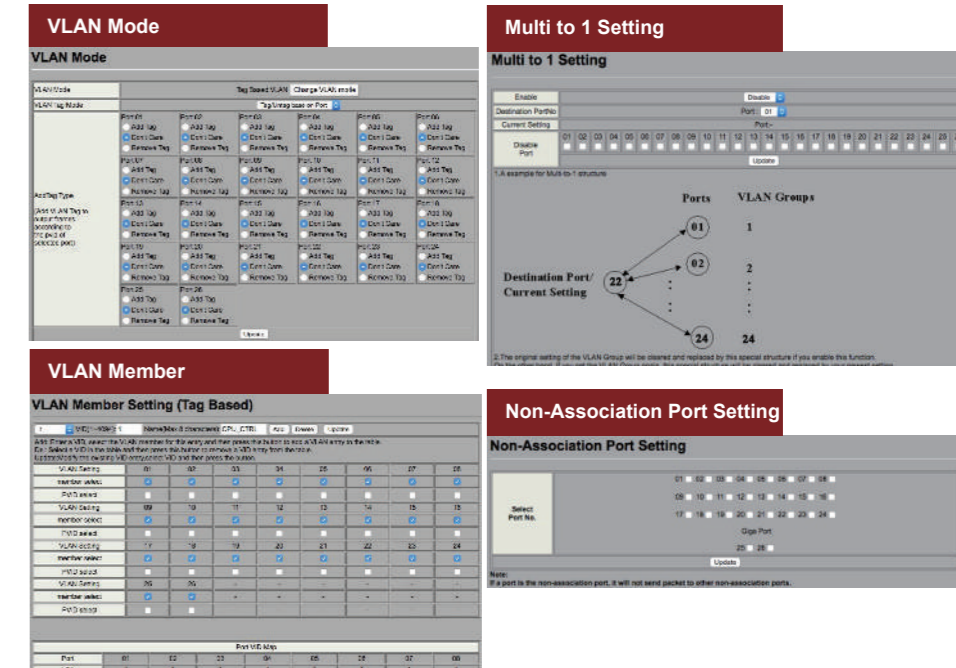
Gambar-9. Fitur-fitur administrator

### b. Fitur Port Management



Gambar-10. Fitur-fitur pada Port Management

### c. Fitur VLAN Setting



Gambar-11. Fitur-fitur VLAN Setting



#### d. Fitur Per Port Counter

**Port Counter**

Counter Mode Selection: **Transmit Packet** / Receive Packet

Port	Transmit Packet	Receive Packet
01	1506535	58181
02	1660122	62541
03	1488178	33822
04	1356791	49449
05	1836074	64887
06	1703345	94680
07	1429138	89912
08	1114912	35104
09	978276	63390
10	53061	1974
11	1369430	36430
12	1097905	35092

Gambar-11. Fitur-fitur VLAN Setting

#### e. Fitur QoS Setting

**Priority Mode**

Priority Mode

Mode:  First In First Out  
 Add-Weighted Round Robin  
 Weighted Round Robin

Low weight:  High weight:

**Port, 802.1p, IP/DS based**

Class of Service Configuration

Port No. Mode	Port No. Mode	Port No. Mode	Port No. Mode	Port No. Mode	Port No. Mode	Port No. Mode	Port No. Mode
1	2	3	4	5	6	7	8

**TCp/UDP Port Based**

Class of Service Configuration

Protocol	Option
FTP(20,21)	FIFO
SSH(22)	FIFO
TELNET(23)	FIFO
SMP(25)	FIFO
DNS(53)	FIFO
TFTP(69)	FIFO
HTTP(80,8080)	FIFO
POP3(110)	FIFO
NEWS(119)	FIFO

Gambar-11. Fitur-fitur VLAN Setting

#### f. Fitur Security

**Mac Address Binding**

MAC Address Binding

Port No.	MAC Address	Binding Status
1		

**Mac Address Scan**

Scan MAC

Port Select	MAC Address	Entry Status
01		

**TCP/UDP Filter**

TCP\_UDP Filter Configuration

**Web Security**

Web Management Filter

State	Access Port
Enabled	

Gambar-12. Fitur-fitur Security

#### g. Fitur Spanning Tree

**STP Bridge Settings**

Spanning Tree Settings

STP Mode	Bridge Priority	Hello Time	Max Age	Forward Delay
Disable	0-61440	1-10 Sec	6-40 Sec	4-30 Sec

**Bridge Status**

STP Mode	Bridge ID	Hello Time	Max Age	Forward Delay
Disable	0:00:00:00:00:00	2	20	15

**Root Status**

Root ID	Hello Time	Max Age	Forward Delay
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**STP Port Settings**

STP Port Settings

Port No.	Priority	State
1	1-99999999	Blocked

**Loopback Detection**

Loopback Detection Settings

Loopback Detect Function	Auto Wake Up	Wake-Up Time Interval
Disable	Disable	10 sec

**Reset All Ports**

Port No.	Status
1	---
2	---

Gambar-13. Fitur-fitur Spanning Tree

#### h. Fitur Trunking

**Link Agregation Settings**

Trunking

System Priority: 1 (1-65535)

Link Aggregation Algorithm: MAC Src&Dst

**Refresh**

Member	Link Group 1				Link Group 2				Link Group 3	
	P1	P2	P3	P4	P5	P6	P7	P8	P25	P26
State	Disable	Disable	Disable	Disable	Disable	Disable	Disable	Disable	Disable	Disable
Type	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP
Operation Key	1 (1-65535)	2 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)	3 (1-65535)
Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out
Activity	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive

Gambar-13. Fitur Trunking

#### i. Fitur DHCP Relay Agent

**DHCP Relay Agent**

DHCP Relay State: Disable

DHCP Relay Hops Count Limit (1-16): 16

DHCP Relay Option 82 State: Disable

**Relay Server**

**DHCP Relay Agent**

DHCP Server IP: [Add]

DHCP Server IP List

**VLAN MAP Relay Agent**

**DHCP Relay Agent**

VLAN ID: 1-4094 Map Server IP: [Add]

**MAP List**

VLAN ID	Server IP	Action

Gambar-14. Fitur-fitur DHCP Relay Agent

#### j. Fitur Backup/recovery

**Configurasi Backup/recovery**

**Configuration Backup/Recovery**

Backup(Switch→PC)

Please check "Download" to download EEPROM contents. [Download]

Recovery(PC→Switch)

Password: [ ]

Select the image file: [Choose File] No file chosen

[Update]

Gambar-15. Fitur Backup/recovery

#### k. Fitur Miscellaneous

**Miscellaneous Setting**

**Miscellaneous Setting**

Output Queue Aging Time

Aging time: Disable ms

VLAN Striding

VLAN Striding: Disable

IGMP Snooping V1 & V2

IGMP Snooping: Disable

IGMP Leave Packet: Disable

VLAN Uplink Setting

Port 01	Port 02	Port 03	Port 04	Port 05	Port 06	Port 07	Port 08	Port 09	Port 10	Port 11	Port 12	Port 13
Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1	Uplink1
Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2	Uplink2

Gambar-16. Fitur Miscellaneous

#### k. Fitur SNMP

**SNMP Settings**

**SNMP Settings**

Community Name: public Access Right: Read Only

Update

**SNMP Settings**

System Description: IP1826

System Contact: ICPlus

System Location: ICPlus

Update

**SNMP Trap Settings**

Trap State: Enable

Enable Trap Server: Disable

Trap Server Address: [ ]

Gambar-17. Fitur SNMP Settings

#### Referensi Manual :

- Garansi alat berlaku selama 1 tahun. Tata cara garansi dan perbaikan alat : [http://www.mikrotik.co.id/index\\_lihat.php?id=4](http://www.mikrotik.co.id/index_lihat.php?id=4)
- Selanjutnya untuk hal-hal yang berkaitan dengan teknis silahkan ditanyakan dengan menggunakan fasilitas LAYANAN pelanggan di [http://mikrotik.co.id/user\\_layanan.php](http://mikrotik.co.id/user_layanan.php)