Ek EKSELANS BY ITS

USER MANUAL

IPC M300

250019

Internet by coaxial

V03

TABLE OF CONTENTS

IPC M300

-LED: LEDs specify the following; LINK if any equipment is connected, POWER if there is power, EOC if the RF chip is correct, SYSTEM the system status. E1 and E2 displays the traffic status of the DATA IN 1 and 2.

-MGMT/DATA IN X: This port enables the internet traffic to proceed and to be connected to the equipment via the IP - 192.168.1.254.

-RESET: Resets the equipment to factory default values.

-CONSOLE: Connection would be for link up to the computer.

-RF: Output to mix in coaxial installation.

Installation Diagram

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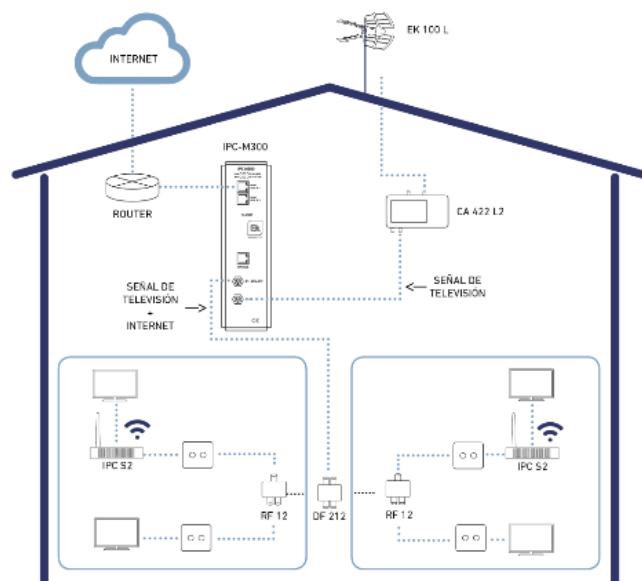
Connection to the IPC M300

For connection to the IPC M300, follow the steps specified below:

1. Connect to the IPC M300 using a network cable or wirelessly. Configure the PC's network adapter using a static IP. In order to become easy the configuration, EK have the application **Ek NET Adapter**, you will be able to configure the network adapter easily. You can download from https:https://ek.plus/software/ you will find a new section "EK NET ADAPTER".
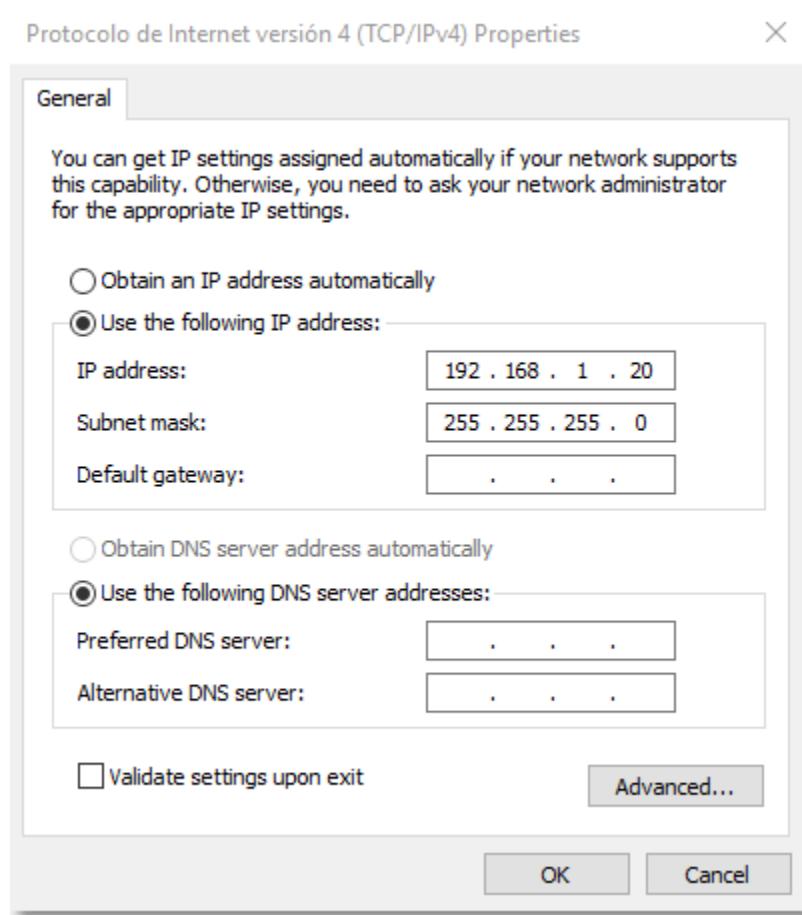
2. Open a web browser and go to the URL: http://192.168.1.254/
3. The username and password is **admin / admin**.

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Interface
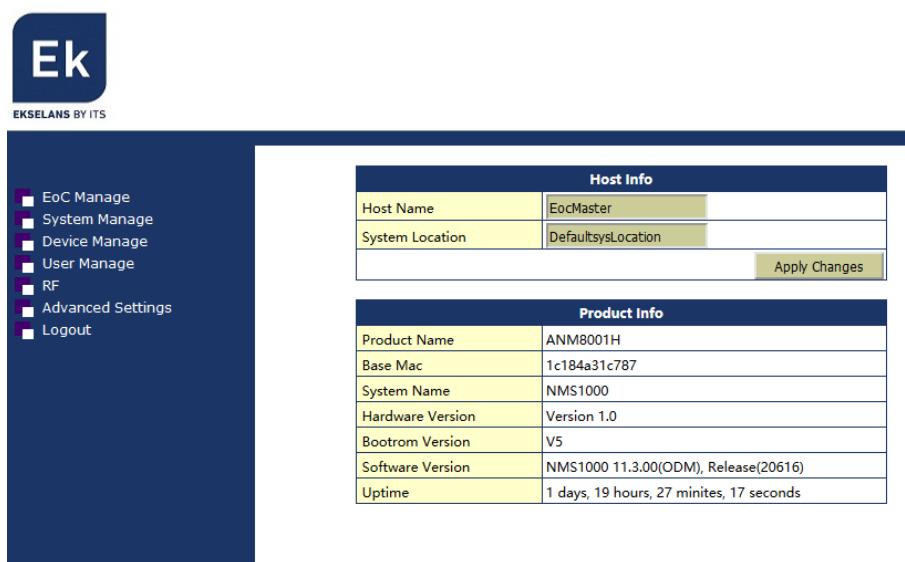
EoC Manage

In this menu everything related to the slaves/user equipment which is connected to the master unit may be managed.

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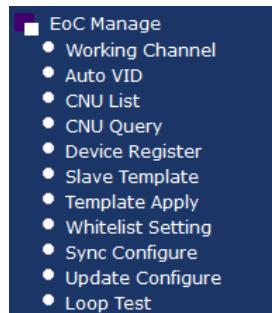
Working channel

Establishes the method of communication from master to slave. If there is a problem when linking the slave with the master, no link may be made due to this option.

If there is any problem the following configuration may be installed:

Working Channel	
Port	cab 0/2 ⌄
Channel	All Tones ON(ATO) ⌄
	Apply Changes

Auto VID

The default VLAN for the different ports of the master can be automatically set here.

Auto VID Setting		
Enable	Close ▾	
Port0 start VID	1	(1 - 4093)
Port0 end VID	1	(1 - 4093)
Port1 start VID	1	(1 - 4093)
Port1 end VID	1	(1 - 4093)
Port2 start VID	1	(1 - 4093)
Port2 end VID	1	(1 - 4093)
Port3 start VID	1	(1 - 4093)
Port3 end VID	1	(1 - 4093)
		Apply Changes

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CNU list

Displays all the equipment connected to the master.

					Dow nStre am (Mbp s)	UpStr eam (Mbp s)	Avg Atten uatio n/Car rier(d B)		Enable Templa te ☐	White List			
Port	TEI	MAC	Model	Link				Auth			User Name	Description	Action
cab0/2	3	1c18.4a34.8383	ANS5004WAC	✓	196	0	0.00	YES	☐	☑			Mana Del
cab0/2	2	1c18.4a34.75cf	MSS5004W	✓	255	0	0.00	YES	☐	☑			Mana Del
unknow	0	1c18.4a34.7f87	MSS5004W	✗	0	0	0	YES	☐	☑			Mana Del

(CNU List — select: All CNU — Apply template | Cancel)

If any template is configured, the enable template option may be selected and then to apply the template to the equipment that is wished to be configured.

Furthermore, if an individual configuration is wished to be made in the Action column, click on the "Mana" button to go to the slave settings.

Slave configuration

By clicking on the "Mana" button, this accesses the slave. Various menus will be displayed where different information may be obtained.

Basic Status	Other Status	MPDU	Signal	Edit	Qos	Update	Sync	Manage	Advance

Basic Status	
MAC Address	1c18.4a34.8383
Link Infomation	Link Up
Device Type	ANS5004WAC
System Version	2.0.18332
EoC Version	INT7400-MAC-7-1-7131-00-17-20131108-FINAL-QCA7411L-B
UserName	
TelePhone	
Contact Address	
Description	

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Signal

Displays the slave's RF signal levels

Signal Statistics			
Rx Stats			
Pre-FEC Bit Error Rate:	0.000000%	Dest PB CRC Error Rate:	0.000000%
Available Margin:	0.000000%	Avg Bits/Carrier	0.000000
Avg SNR/Carrier:	0.000000dB	Avg Attenuation/Carrier	0.000000dB
Avg Output Power/Carrier:	0.000000dBm/Hz		
Tx Stats			
Source PB CRC Error Rate:	0.000000%	Avg Bits/Carrier	0.000000
Avg SNR/Carrier:	0.000000dB	Avg Attenuation/Carrier:	0.000000dB
Avg Output Power/Carrier:	0.000000dBm/Hz		

Edit

Enables to identify the slave and its basic information. Limits the equipment's overall bandwidth and in the Interface section the desired interfaces can be added or configured.

Basic Information	
MAC Address	1c18.4a34.75cf
User Name	
Telephone	
Contact Address	
Description	
Choose Template	Custom ▼
Cable Bandwith	
Uplink Limit	0 Kbps
Downlink Limit	0 Kbps
MAC Address Limiting	
MAC Number Limit	0 ▼ (0 means limit disabled)

NetWorks		
Interface Name	Port Map	Operate
1_INTERNET_R_VID_-1		✎
Add		
LAN		
LAN		
WLAN		
WLAN		
		Apply Changes

The different menus - LAN, WLAN and if the equipment is AC - the WIFI 5G menu, then their respective options can be configured.

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WAN

More than one WAN may be added if it is required to make use of additional services otherwise the existing WAN will be modified by establishing as to whether the equipment operates in Bridge or Router mode. The WAN likewise enables establishing a VLAN as well as to select the ports which will be linked to same in order to provide the service.

NetWorks Seeting	
VLAN ID	-1 (-1,1~4093), -1: mean not set VLAN ID
802.1p	0
Internet Name	INTERNET ▾
Service Mode	Route ▾
Enable NAT	☑
Link Type	DHCP ▾
PortMap	☐ LAN1 ☐ LAN2 ☐ LAN3 ☐ LAN4 ☐ WLAN1 ☐ WLAN2 ☐ WLAN3 ☐ WLAN4
	Apply Changes Cancel

LAN

LAN Settings			
IP Address	192.168.1.1	Note: change the IP, will change the IP pool	
Subnet Mask	255.255.255.0		
DHCP Server Enable	☑		
DHCP List			
Network type	Start IP	End IP	Leasetime (1~24 hours)
STB	192.168.1.10	192.168.1.20	12
Phone	192.168.1.30	192.168.1.40	12
Camera	192.168.1.50	192.168.1.60	12
Computer	192.168.1.70	192.168.1.80	12
DNS Settings			
Manual DNS	☐		
		Apply Changes Cancel	

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WLAN

In this section up to 4 SSID, with their respective parameters may be configured.

Wireless Settings		
Enable Wireless	☑	
Basic Settings		
Network Type	802.11b/g/n Mixed ▼	
Channel	6 ▼	
Channel Bandwidth	20 ▼ MHZ	
Rate	Auto ▼ (The rate in bracket is for doubule antennas)	
Tx Power	100% ▼	
Guard Interval	Short ▼	
Country Code	China ▼	
Security Settings		
SSID Index	SSID1	
SSID	RL-SSID1	
Enable SSID	☑	
Hidden SSID	☐	
AP Isolation	☐	
Encrypt Type	WPA-PSK ▼	
WPA Cipher	AES ▼	
WPA Key	●●●●●●●● the length of key is no less than 8 and no more than 64.	
Security Settings		

Once these changes are completed, the changes will be implemented.

Slave template

The general template may be configured here which can be applied to the equipment.

The previous section clearly describes how to implement a template and the different elements comprising same.

Template to be applied

By default the template is deactivated as "close" and if wishing to use the template configure same as "open".

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Setup and Sync

This option describes the configuration address.

| Set Sync Direction	
Sync Direction (only valid for registered gateway slave)	from master to salve ▼
	Apply Changes

From master to slave: As its name implies the configuration which will prevail is that of the master over slave

From slave to master: The configuration which prevails here is that of the slave. This mode is used when the master will not be utilised.

Auto Sync		
Enable Auto Sync	Enable ▼	
Set Sync Interval	1	(1 ~ 10080 minutes)
		Apply Changes

This option synchronises the slave configuration automatically every x minutes if enabled. Ideal to prevent factory default resets in the equipment and which lose their configuration.

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System management
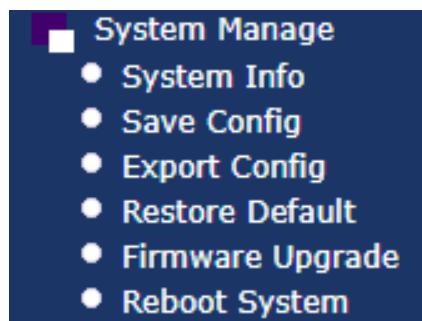
- **System information:** Provides information as regards the system, identifies the equipment with name and location.
- **Save configuration:** Menu for saving the latest settings.
- **Export configuration:** Exports the master's configuration.
- **Restore default:** Restores the master to factory default settings.
- **Firmware update:** Select the new firmware in order to update the master.
- **System restart:** System reboot.

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Device management

VLAN MANAGE			
VLAN list:	default ▼	Delete	Create

VLAN Details	
VLAN NAME:	default
VLAN ID:	1
VLAN IP:	172.16.5.241
NETMASK:	255.255.255.0
GATEWAY:	
	Change

VLAN PORTS	
Tagged ports:	
Untagged ports:	1 2
	Config

The create button enables adding the VLANs that the Master will process. If the VLANs are not added and linked to the ports, their traffic will not proceed.

An IP for the master in each VLAN may be assigned.

RF

Level and Bandwidth		
Port	cab 0/2 ▼	
outputlevel	112	dBuV (84~112)
startfreq	7.5	MHz
endfreq	67.5	MHz (22.5~67.5)
		Apply Changes

The output signal level may be adjusted. It is advisable to increase the output level to 112.

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