ICP DAS

IOP760AM FAQ

FAQ Version 1.40

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Q1: How do I connect IOP760AM without Wi-Fi router?

A1: The point-to-point connection can be implemented by the "WDS Hybrid" mode. Please refer to the following steps.

(1) Disable WAN

•	Physical Interface Internet S	Setup	
Γ	Physical Interface List		
	Interface Name	Physical Interface	Operation Me
V	VAN-1	WiFi Module One	Always on
	Interface Configuration (WAN - 1) Item		
ŀ	Physical Interface	WiFi Module One	
	Operation Band	5G 🔽	
	 Operation Mode 	Disable 🔽	
	▶ Line Speed	100 Mbps 💌 / 100	Mbps 🔻 (U
	VLAN Tagging	Enable 0 (1-4095)	
			Save Undo

(2) Disable LAN DHCP.

Etherne	Ethernet LAN VLAN DHCP Server											
DHCP S	erver List Add	Delete	DHCP Client List									[Help]
DHCP Server Name	LAN IP Address	Subnet Mask	IP Pool	Lease Time	Domain Name	Primary DNS	Secondary DNS	Primary WINS	Secondary WINS	Gateway	Enable	Actions
DHCP 1	192.168.123.254	255.255.255.0	192.168.123.100- 192.168.123.200	86400		0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0		Edit Fixed Mapping
Configu	ration											
Item				Setting								
DHCP Se	DHCP Server Options											

(3) Set WDS hybrid mode on Wi-Fi configurations.

(4) Enable lazy mode on server side. Disable lazy mode on client side, and scan the server side.

5 56 WiFi Configuration	
Item	
WiFi Module	Enable
 WiFi Operation Mode 	WDS Hybrid Mode 💌
Lazv Mode	🗖 Enable
▶ Green AP	🗖 Enable
VAP Isolation	☑ Enable
 Multiple AP Names & Enable & Max. STA 	VAP 1 🔽 🗹 Enable Max. STA : 🗖 Enable
Time Schedule	(0) Always 💌
Network ID (SSID)	Staff Broadc;
 STA Isolation 	🔽 Enable
Channel	44 💌
WiFi System	802.11 a/n/ac Mixed 💌
Authentication	Auto S02.1x Enable
Encryption	None 💌
Scan Remote AP's MAC List	Scan

(5) If the LAN Port IP is 192.168.123.254(default setting), the Ethernet device that you connect with IOP760AM must be set with the same IP area (192.168.123.xxx).

Q2: The roaming interval is not stable. How to make it better?

A2: 使Users can add the profiles to their Wi-Fi configurations. This function is just like a back-up connection of the Wi-Fi. When the signal strength of all APs are lower than the roaming threshold, the IOP760AM select the strong one and connect it. Please refer to the following steps,

(1) Enable the profile function on the "WiFi Module One" page.



(2) Add the AP's information and save, and set the priority to "By Signal Strength".

▶ WiF	Fi Module One	• Wireless Cl	ient List	Advanced C	onfiguration	Uplink Profile			
U S	etting								
	Item					Setting			
► Op	peration Band		5G 🔻	5G 💌					
▶ Pri	iority		O By Sig						
► Ci	urrent Profile								
	Profile List Add	Delete G	et Signal St	rength					
ID	Profile Name	SSID	Channel	Channel Authentication		MAC Address			
1	WIF-TEST	WIF-TEST	Auto	Open	None	11-22-33-44-55-66			

Q3: How do I check the Wi-Fi connection status?

A3: Users can observe the Wi-Fi connection status via Web UI.

In Web UI, the Wi-Fi connection is shown in the "Status -> Basic Network -> WiFi -> WiFi Module One Uplink Status" page. If the connection is successful, the BSSID and its RSSI value will be shown in this page.

Status	▶ WAN	& Uplin	k 🕨 LAN & VLA	N 🕨 WIFI								
Basic Network												
Security	UNFI N	lodule 0	ne Virtual AP List									
Administration	Op. Band	ID	WiFi Enable	Op. Mode	S SID	Channel	WiFi System	Auth.& Sec	urity	MAC Address	1	ction
Statistics & Reports	2.40	VAP-1	M	WIFi Uplink	Staff	11	b/gin Mixed	Auto(No	ve) (0:50:18:21:E6:7F	Edit	QR Code
Basic Network	2.4G	VAP-2	п	WIFi Uplink	default	11	b/g/n Mixed	Auto(No	ve) (2:50:18:20:E6:7F	Edit	QR Code
(B) Object Definition	2.4G	VAP-3	П	WIFi Uplink	default	11	b/g/n Mixed	Auto(No	ve) (2:50:18:21:E6:7F	Edit	QR Code
	2.40	VAP-4	п	WIFi Uplink	default	11	b/g/n Mixed	Auto(No	ne) (2:50:18:22:E6:7F	Edit	QR Code
Prend Communication	2.40	VAP-5	П	WIFi Uplink	default	11	b/gin Mixed	Auto(No	ve) (2:50:18:23:E6:7F	Edit	QR Code
Security	2.40	VAP-6	п	WIFi Uplink	default	11	b/gin Mixed	Auto(No	ve) (2:50:18:24:E6:7F	Edit	QR Code
Administration	2.4G	VAP-7	п	WIFi Uplink	default	11	b/g/n Mixed	Auto(No	ve) (2:50:18:25:66:7F	Edit	QR Code
	S WIEL	lodule 0	ne Uplink Status									
		SSID		BSSID		Channel	Securit	v	R\$SI0	RSSI1	Rate	Action
	ICS	PDAS_W	η	00:50:18:21:E5:C9		11	WPA2-PSK(TKIP)	-101	-94	1	Edit

Q04: How to set VAP function?

A04: Please refer to the following steps,

You can use the browser to connect web UI, and type in the IP Address (http://192.168.123.254). The default
password is admin.

C 192168123254 ×	_ 0	x	-
← → C Q ○不安全 192168.123.254	0- ☆	r (0
C 192188123254 ★ C ○ ○ 不安全 192168123.254 Welcome to the router configuration interface. Enter the password and click 'Login' Password :	- C		

(2) Set network type to "NAT Mode" or "Bridge Mode" (4). Basic Network => WAN & Uplink (1) => Internet Setup (2).

で ① 不安全 192.168	3.123.254				0
			SSID : Staff Firmware Version	: 0000VH0.HB1_0B1.0000_11101800	Language : English •
Status	Physical Interface				
Basic Network	2				
WAN & Uplink	Interface Name	Physical Interface	Operation Mode	WAN Type	Action
LAN & VLAN	WAN-1	WiEi Module One	Always on	Uplink	Edit 3
WiFi			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ohum	
IPv6	Internet Connection Configuration (W	/AN - 1)			
Port Forwarding	Item		Setting		
Routing	 WAN Type 	Uplink •			
QoS	T MEET Hallah WAN Ture Conference				
Object Definition	WiPi Oplink WAR Type Conliguration		Batting.		
	item		Setting		
Field Communication	Connect to AP	default-Ch#38-Open (None) Scan			
Security	Network Type	NAI MODE V			
	IP Mode	102 168 123 254 (Ontional	(4)		
Administration	IP Address ID Subset Mask	255 255 255 0 (/24)	Ŭ		
	IP Gateway	(Optional)			
Service	Primary DNS	(0	Optional)		
	Secondary DNS	(0	Optional)		
	Connection Control	Auto-reconnect ·			
	Fast Roaming	Enable Signal Threshold 40	96		
		•			
	Network Monitoring Configuration				
	Item		Setting		
	Network Monitoring Configuration	Enable			
	Checking Method	Query Interval 5 (seconds	;)		
	Loading Check	Latency Threshold 3000 (ms) Fail Threshold 5 (Times)			
	Target1	DNS1 •			
	Target2	None •			

(3) Enable VAP function.

1. Going to the VAP setting page Basic Network(1) \Rightarrow WiFi(2) \Rightarrow WiFi Module One(3).

- 2. Please click the box to enable the VAP function(4)
- 3. The STA isolation means that stations which associated to the same VAP cannot communicate with each other (5).
- 4. Please click the "Save" and "Apply" to store the parameter. The IOP760AM will reset after the setting is finishing.



(4) You can connect IOP760AM by the smart phone or other devices. The PC and smart phone can ping the ETH device successful after connecting to the VAP of IOP760AM.



Q05: How to set the Virtual COM?

A05: The Virtual COM makes user access serial devices anywhere over a local LAN or the Internet. The Virtual COM function only works with the **"NAT mode"**. It's also can work with the VAP.

(1) You can use the browser to connect web UI, and type in the IP Address (http://192.168.123.254). The default password is admin.

	ው ☆
Welcome to the router configuration interface.	
Password :	
	We come to the receiver configuration therefore. Enter the particular and deals larger Personnel :

(2) It needs to set the network type and AP on the Internet Setup page.

- Going to the Wi-Fi setting page. Basic Network / WAN & Uplink (1) => Internet Setup (2) => Click the "Edit" button (3).
- 2. The next step changes the network type to NAT mode. If the AP have DHCP that setting the IP mode to the Dynamic IP. Otherwise setting the IP mode to the static IP.
- Please click the "scan" button (5). The scan result will appear below the page, and then connect to the Wi-Fi AP (6~7).

01	192.168.123.254 ×	100								افا	-0
	C 合 ① 不安全 192.168.	123.254									07 5
	Status	Physical Interface	et Setup			S. Fi	irmware Version	: 0000VH0.H11_011.00	000_03201030	Logout	
D	Basic Network WAN & Uplink LAN & VLAN WREI	Internet Connection List Interface Name WAN-1	Pi WiFi Module One	nysical Interface	Ai	Operation N	lode	WAN	і Туре	Action	
	IPv6 Port Forwarding Routing	Internet Connection Configu Item WAN Type	ration (WAN - 1)	T			Setting			3	
	Object Definition Field Communication	guration WIFI_TE	ST-Ch#11-WPA2-	PSK (AES) Sca) n Edit	Setting					
	Security	Network Type IP Mode Connection Control Maximum Idle Time	A NAT M Dynan Conne 600	ode inc IP ct Manually (seconds)	¥						
	Service	 Fast Roaming 	Enat	Ile Signal Thresho Ile Query ICMP (ling Check	old 40 %						
Network Monitoring				iterval imeout Threshold ishold	3 3000 10 DNS1 None	(seconds) (ms) (Times) •					
L		Wireless AP List	I							~	1
		SSID	BSSID	Channel	Mode	Security	Signal Strength		Action	$\overline{\mathcal{O}}$	1
	6	WIFI_TEST	00:50:18:21:e5:ce	40	A/N/AC Mixed	WPA2-PSK(AES)	100%	Security Key:		Apply]
					F	Refresh Cancel					

(3) Port Configuration

 Going to the "Port Configuration" page. Field Communication (1) => Bus & Protocol => Port Configuration (2). 2. Please click the "Edit" button, and the set the COM parameter (4), and then click the "Save" button (5).

70	172.16.3.11 ×		100 100		2						×
\leftarrow	→ C ☆ ① 不安全 172.16	.3.11								ģ	<u>م</u>
Status Status Basic Network	2 Port Configuration	Virtual COM Modbus				SSID : Staff Firmware Version :	: 0000VH0.H11_011	0000_03201030	Language : English •		
	Object Definition	Serial Port	Operation Mode	Interface	Baud Rate	Data Bits	Stop Bits	Flow Control	Parity	Action	
	Field Communication	SPort-0	4 Virtual COM •	RS-232 •	115200 •	8 •	1•	None •	None •	Edit (3)	
(1)	Bus & Protocol Data Logging Security Administration Service				6	ave Undo					

(4) TCP Server/Client Configuration

- 1. Going to the "Virtual COM" page. Field Communication (1) => Bus & Protocol (2) => Virtual COM (3)
- 2. Please click "Edit" button (4), and then set the operation mode (5).
- 3. The next step clicks the "Save" button to store the configuration (6).

192.168.123.254 ×									--0	X
← → C 凸 ① 不安全 192.168.123.25	3 Port Configuration Virtual	COM Modbus			SSID : Str Firmware	aff Version : 0000VH0.H11_0	L11.0000_03201030	anguage : Logout	약 섬	
Object Definition Object Definition	Operation Mode Definition for Serial Port Operation Mode SPort TCP Client TCP Client CP Server UDP RFC-2217	reach Serial Fort Listen Port 4001 (1~65535)	Trust Type (Allow All •	Max Connection	Connection Control	Connection Idle Timeout	Allve Check Timeout	Enable	Action Edit	

- (5) Create TCP client or server on your computer
 - 1. It needs to create a TCP connection between IOP760AM and PC.
 - 2. The IOP760AM will send data to the RS-232/485 when TCP receives the data from the peer.



Q06: How to export or import the configuration files from IOP760AM?

A06: : The IOP760AM support the function on the Backup & Restore page

- Export the IOP760AM configuration
- 1. You can use the browser to connect web UI, and type in the IP Address (http://192.168.123.254). The default password is admin.

P.S Please use the Firefox or Chrome as your browser.

🗅 192.168.123.254 × 🔼		
← → C △ ③ 不安全 192.168.123.254		아 ☆ 🧿
	Welcome to the router configuration interface.	
	Enter the password and click Login	
	Password : Login	

- Going to the Backup & Restore page. Administration (1) => System Operation (2) => Backup & Restore (3). The IOP760AM configuration can download by the browse. The backup configuration setting is "Download" mode.
- 3. Please click "Via Web UI" to start the download process (4). The file name of configuration is config.bin.

	192.168.123.254 ×		
←	→ ℃ ☆ ③ 不安全 192.168	123.254	ው 🕁
	Status	Password & MMI System Information	SSID : Staff Language : English • Firmware Version : 0000VH0.HB1_0B2.0000_12081800 Logout System Time > System Log > Backup & Restore > Reboot & Reset
	Basic Network	FW Backup & Restore	
	Object Definition	Item	Setting
	Field Communication	► FW Upgrade	Via Web UI • FW Upgrade
		Backup Configuration Settings	Download V Via Web UI 4
	Security	Auto Restore Configuration	Enabel Save Cont. Clean Cont. Into.
(1)	Administration	Solf defined CSS	
Y	Configure & Manage		Download Via Web UI Reset
2	System Operation FIP Diagnostic Service		Save

- ▶ Import the IOP760AM configuration
- Going to the Backup & Restore page. Administration (1) => System Operation (2) => Backup & Restore (3). The backup configuration setting is "Upload" mode.

2. Please click "Via Web UI" to start the download process (4).

Image: State Sig: State Firmware Version : 0000VH0.HB1_0B2.000_12081800 Image: End Image: State Password & MMI System Time System Log Packup & Restore Reboot & Reset Image: State Image: St	- □ ~ ☆	Ľ						3.254/index.htm	92.168.12	08.123.254/index:× C 企 ① 不安全 19	← → (
1 2 3 3 3 3 3 3 4 4 4 5 5 5 5 6 7 7 7 7 7 7 7 8 8 8 <th>lish ▼</th> <th>Logout</th> <th>0000VH0.HB1_0B2.0000_12081800</th> <th>SSID : Staff Firmware Version :</th> <th>3</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	lish ▼	Logout	0000VH0.HB1_0B2.0000_12081800	SSID : Staff Firmware Version :	3						
Image: Security FW Backup & Restore Image: Security Image: Security Image: Security Image: Security <				Reboot & Reset	Backup & Restore	e 🔹 System Lo	ormation 🔹 System Time	Password & MMI System Info		Status	e
Image: Security Image: Security 1 • Security								FW Backup & Restore		Basic Network	
Field Communication Security Administration System Operation FIP System Operation FIP System Operation FIP System Operation System				Setting				ltem		Object Definition	6
Security					2	 FW Upgrad 	Via Web UI	FW Upgrade	on	Field Communicatio	
Security > Self-defined Logo Download • Via Web UI Reset System Operation > Self-defined COS Edit Download • Via Web UI Reset	_				b Conf Info	Via Web UI	Upload V	Backup Configuration Settings	-		
1 Image: Administration 2 System Operation 3 FIP Save Save					eset	▼ Via Web UI	Download •	Self-defined Logo		Security	
System Operation Save						- 14-14-1-14	Edit	Self-defined CSS		Administration	1
Service					Save	Via web U	Loumides			System Operation TP Diagnostic Service	200

3. Pleas chose the path of configuration file on the page, and then click "Upgrade" button to start the upgrade process.

Doesn't close the browse or power off the IOP760 until upgrade complete.

	SSID : Staff Language : Eng Firmware Version : 0000VH0.HB1_0B2.0000_12081500 Logout	lish
Status	🗅 Password & MMI 📄 System Information 📄 System Time 📄 System Lag 📄 Bäckup & Restore 📄 Reboot & Reset	
Basic Network	Backup Setting Upprade	
Chicat Definition	Backup Setting Filename	
Eield Communication	5 選擇檔案 未選擇任何檔案	
	NoteI Do not interrupt the process or power off the unit when it is being upgraded.	
🕎 Security	When the process is done successfully, the unit will be restarted automatically.	
Administration	6 Upgrade Cancel	
Configure & Manage		_
• System Operation		
0 FTP		
Diagnostic		
Service		
<u> </u>		

4. The IOP760AM will reset itself after upgrade finishing.

D 192168.123.254/index ×	
← → C △ ◎ 不安全 192168.123.254/index.htm	아 ☆ 🔘
Upgrade successful!	
System is restarting	
Remaining time: 93 seconds	

Q07: How to restore IOP760AM into factory setting?

A07: The IOP760AM support 2 ways to restore configuration. One is reset button on the IOP760, and the other is restarting on the web UI.

- Restore Factory Setting by Reset Button
- 1. Press the RESET button continuously for 6 seconds, and then release it.



- 2. The power source LED (^(U)) will flash when the reset is starting.
- Restore Factory Setting by WEB UI
- Login the web UI, and then going to "Reboot & Reset" page. Administration => System Operation => Reboot & Reset (1~3).
- 2. Please click the "Reset" button.

) 192.168.123.254 ×		- 0	X
÷	→ C ☆ ③ 不安全 192.1	168.123.254	o• ☆) (
		SSID - Staff Language : Engls Fin 3 Version : 0000VH0.HB1_0B2.0000_12051800 Language : Engls	a 🔹	
	Status	Password & MMI 🔹 System Information 🔹 System Time 🔹 System Log 🔹 Backup & Restore 💽 Reboot & Reset		
	Basic Network	· System Orientian	-	
	Dbject Definition	Item Setting		
	Field Communication	Rebot Now Rebot Rebot		
	Security	A Reserve to Devaluat	-	
(1 (2	Administration Configure & Manage System Operation FTP Diagnostic			
	• Service			
		•		

Q08: Can the IOP760AM work with 2.4 / 5 GHz at the same time?

A08: The IOP760AM only can work one frequency at the same time. You can change the frequency band by web UI.

Going to the "Physical Interface" page, and then click the "Edit" button. Basic Network (1) => WAN & Uplink (1) => Physical Interface (2).

2. The frequency can change on the "Operation Band" (4)

	2		SSID : Staff Firmware Version : 0000VH0.HB1_0B2.0000_1208	Language : English • 1800 Logout
Status Status Basic Network WAN S Unlink	Physical Interface Physical Interface List			3
LAN & VLAN	Interface Name WAN-1	Physical Interface WiFi Module One	Operation Mode	Edit
0 WIFI			r entraj o entr	
IPv6 Port Forwarding	Interface Configuration (WAN - 1) Item		Setting	
• Routing	Physical Interface	WiFi Module One •	Jerring	
QoS	 Operation Band 			
Object Definition	Operation Mode	2.46 n (4.4005)		
Field Communication	Curin ragging	Save Undo		
Service				

Q09: The IOP760AM will disconnect with AP when the AP has change the Wi-Fi channel. How to avoid it?

A09: The WAN & Uplink will scan the same AP's configuration in the same channel. Therefore it need to enable "Profile" function in the IOP760AM. The "Profile" function can reconnect to the AP when the AP in the different channel. The setting step of IOP760AM was shown as following step:

(1) You can use the browser to connect web UI, and type in the IP Address (http://192.168.123.254). The default password is admin.

23.254		
	Welcome to the router configuration interf	ace.
	Enter the password and click 'Login'	
	Password : Login	

(2) Enter to the Profile setting page

The setting can enter form "Basic Network(1) \Rightarrow Wi-Fi(2) \Rightarrow Uplink(3)" and click the "Add" button(4) to add a Wi-Fi AP.

							S	SID : Staff irmware Version : 0000VI	H0.HB1_0E	B3.0000_	02091800	Language : English •
Status		▶ WiF	i Module One	Wireless Client	List 🕨 /	Advanced Config	juration 🕨 L	Iplink Profile				
Basic Network		a s	etting									
• WAN & Uplink			Item					Setting				
O LAN & VLAN		► Pro	ofile		Enabl	е						
• WiFi	2	► Op	eration Band		2.4G ¥]						
O IPv6		▶ Pri	ority		By Sig	nal Strength 🔘 B	/ User-defined					
Port Forwarding		→ Cu	rrent Profile									
Routing QoS		a P	Profile List Add	Delete Get Sig	ınal Strenç	yth						
Object Definition		ID	Profile Name	SSID	Channel	Authentication	Encryption	MAC Address	Signal Strength	Priority	Enable	Actions
Field Communication							Save	Undo				

- (3) Scan a Wi-Fi AP
- 1. Please click the "Scan" button (1). The results will be displayed below the WEB page.
- 2. Please choose a AP (2).
- 3. Changing a channel to "AUTO" (3).
- 4. Enter AP's password (4).
- 5. Click "Save" button to save the configuration(5).

Status	WiFi Module One Virele	ss Client List	Advanced Con	figuration D Uplink Pr	ofile		
Basic Network							
OWAN & Ustak	Profile Configuration						
	Item				Setting		
O LAN & VLAN	Profile Name	AP_1					
o WiFi	Network ID (SSID)	MDC-	211-WF	Scan (1)			
© IPv6	Channel	Auto	· (3)				
Port Forwarding	 Authentication 	WPA	2-PSK V				
Routing	Encryption	AES	*				
© Qo S	Preshared Key	Your_	Password		- (4)		
(A) Object Definition	MAC Address	06:50	:18:21:e7:8e				
	Priority	16	r				
Field Communication	Enable			e			
Security				Save Undo Ba	ck		
Administration	Wireless AP List						
Service	\$ \$ID	Channel	Quality	Authentication	Encryption	MAC Address	Select
	ICPDAS-UNIFI	1	0%	WPA2-PSK	AES	0a:18:d6:25:2b:37	•
	ICPDAS-EE3	3	5%	WPA2-PSK	AES	30:5a:3a:60:c7:00	•
	Guest_2.4G	11	0%		None	1a:50:18:21:e7:90	•
	WF-2572	11	100%	WPA2-PSK	AES	02:50:18:21:e7:8e	•
	ICPDASAD3	11	29%	WPA2-PSK	AES	00:50:18:21:e7:94	
	MDC-211-WF	11	100%	WPA2-PSK	AES	06:50:18:21:e7:8e	• 2

(4) Please enable the "Profile" and click the "Save" button.

Status	► WiF	i Module One	Wireless Client	List 🕨 /	Advanced Config	uration 🕨 U	plink Profile				
Basic Network	a S	etting									
• WAN & Uplink		Item			-0		Setting				
Q LAN & VLAN	▶ Pr	ofile		🗹 Enable							
O WiFi	► Op	peration Band		2.4G 🔻							
0 IPv6	► Pr	iority		By Sig	nal Strength 🔘 By	User-defined					
• Port Forwarding	► CL	urrent Profile									
Routing		Drofile List Add	Delete Get Sic	inal Strong	th						
QoS								Signal			
Object Definition	ID	Profile Name	\$ SID	Channel	Authentication	Encryption	MAC Address	Strength	Priority	Enable	Actions
Field Communication	1	AP_1	MDC-211-WF	Auto	WPA2-PSK	AES	6-50-18-21-E7-8E	100	16	4	Edit Select
Security						Save	Undo				

Q10: How to enable Modbus gateway function in IOP760AM

A10: The IOP760AN supports Modbus gateway. The following shown as the system architecture and setting step.

System Architecture



Setting Step

(1) Please choose the operation band in IOP760AM. The operation band should be same with Wi-Fi AP.

🗅 172.16.3.11 ×	B B 61 20				
← → C △ ① 不安全 172.16.3	3.11				☆
Status	3 Physical Interface Internet Setup		SSID : Staff Firmware Version : (0000VH0.H11_011.0000_03201030	Language : English •
Basic Network	Physical Interface List				
O WAN & Uplink	Interface Name	Physical Interface	Operation Mode	Line Speed	Action
IAN & VLAN	WAN-1	WiFi Module One	Always on	100 (Mbps) / 100 (Mbps)	Edit (4)
0 WiFi				1	
Pv6 Port Forwarding	Interface Configuration (WAN - 1)				
Routing	Item	MiEi Modulo Ono 🖛	Setting		
O QoS	Physical Interface Operation Band				
Object Definition	Operation Mode	Always on 🔻			
	▶ Line Speed	100 Mbps v / 100	Mbps (Upload / Download)		
Field Communication	VLAN Tagging	Enable 0 (1-4095)			
Security Administration Service		6	Save Undo		

(1) WAN Setting

- 1. The network type is "NAT Mode".
- 2. Please choose the IP mode. The dynamic IP uses for DHCP mode. The static IP uses for static IP mode.
- 3. Please click the "Scan" button search for Wi-Fi AP.

 □ 172.16.3.11 × → C △ ① 不安全 172.16.3 	1 1 1 1 1 1 1 1 1 1		10 H		ė.
			sou : Stan Firmware Version	: 0000VH0.H11_011.0000_03201030	Logout
Basic Network WAN & Uplink	Internet Connection List Interface Name	Physical Interface	Operation Mode	WAN Type	Action
• LAN & VLAN • WIFI • IPv6	WAN-1	WiFi Module One WAN - 1)	Always on	Uplink	Edit 3
Port Forwarding Routing QoS	Item WAN Type	Uplink •	Setting		
Object Definition	WiFi Uplink WAN Type Configuration Item	(5 Setting		
Field Communication	Connect to AP Network Type IP Mode	WIFI_TEST-Ch#11-WPA2-PSK (AES)	Edit		
Administration	Connection Control Maximum Idle Time East Reaming	Connect Manually 600 (seconds) Enable Signal Threshold 40	%		
(Service	Network Monitoring	Enable DNS Query ® ICMP Checking Loading Check Check Interval 3 Check Timeshold 3000 Fail Threshold 10 Target1 DNS1 Target2 None	(seconds) (seconds) (ms) (Times) v		
			Save Undo		

- (2) Choose the AP
 - 1. Please enter the Wi-Fi password after choosing the Wi-Fi AP.
 - 2. The IOP760AM connect to the Wi-Fi after click "Apply" button.

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→ С △ ① 不安全 172.16.3.1	1								
Basic Network	Internet Connection List								
• WAN & Uplink	Interface Name		Physical Inter	face	Operation Me	ode	WAN Ty	ype	Action
O LAN & VLAN	WAN-1	WiFi Module	- Dne		Always on		Uplink	Ed	lit
• WiFi									
Q IPv6	Internet Connection Config								
Port Forwarding	Item					Setting			
Routing	WAN Type	Upl	nk 🔻						
QoS									
Object Definition	WiFi Uplink WAN Type Cont	figuration							
	Item					Setting			
G Field Communication	Connect to AP	WIFI_	WIFI_TEST-Ch#11-WPA2-PSK (AES)						
	Network Type	NA	NAT Mode •						
Security	IP Mode	Dyr	Uynamic iP v						
Administration	Connection Control	Cor							
	Maximum Idle Time	600							
Service	 Fast Roaming 		nable Signal I ni	resnold 40	%0				
			DNS Query CMP Checking Loading Check						
		Cheo	k Interval	3	(seconds)				
	Network Monitoring	Chec	k Timeout	3	(seconds) (ms)				
		Fail	'hreshold	10	(Times)				
		Targe	et1	DNS1	Ŧ				
		Targo	et2	None	Ŧ				
	Wireless AP List								
	SSID	BSSID	Channel	Mode	Security	Signal Strength		Action	
	WIFI_TEST	00:50:18:21:e5:ce	40	A/N/AC Mixed	WPA2-PSK(AES)	100%	Security Key:		Apply
				[Refresh Cancel				

(3) Connection status with IOP760AM

	(2						SSID : S Firmwar	taff e Version : 0000VH0.H11	I_011.0000_03201030	Language :	English
Status	► WAN	l & Uplink	LAN & VLA	AN 🕨 WIFI						-		
Security		Interface IPv4	Network Stat	us						(3)		
Administration	ID	Interface	WAN Type	IP Addr.	Subnet Mask	Gatew	ay	DNS	MAC Address	Conn. Status	A	ction
Statistics & Reports	WAN-1	WIFI Module 1	Uplink	192.168.0.3	255.255.255.0	192.168	0.1	8.8.8.8, 8.8.4.4	N/A	Connected	Discon	nect E
Basic Network	= WAN	Interface IPv6	Network Stat	us							_	
Object Definition	ID	Interface W	terface WAN Type Link-local IP Address Global IP Address Conn. Status				ıs	Actio				
Field Communication	WAN-1		Disable									Edi
Security	a LAN	Interface Netw	vork Status									
		IPv4 Ad	ldress		IPv4 Subnet Mask		IPv6 L	ink-local Address	IPv6 (Global Address	Ac	tion
Administration		172.16	.3.11		255.255.255.0		fe80	::250:18ff:fe21:e785		/64	Edit IPv4	Edit IP
Service	Inter	face Traffic Sta	atistics			÷						
	ID	Interface		R	eceived Packets				Transm	itted Packets		
	WAN-1	WIFI Module 1			142					841		

(4) Change Serial Interface

1. Please change the "Operation Mode" to "Modbus".

2.	Please	change the	e "Interface"	to	"RS-485".
2.	Please	change the	e "Interface"	to	"RS-485".

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← → C ▲ 不安全 192.16	8.123.254								07	☆ 0		:
Status	2 Port Configuration	Virtual COM 🔹 Me	odbus		SSID : Staff Firmware V	f /ersion : 0000XN	10.151_052.0000_	Li _07031200	anguage Logout	: English	T	•
 Basic Network Object Definition Field Communication Bus & Protocol Data Logging Security Administration Service 	Serial Port Definition Serial Port SPort-0	Operation Mode Modbus	Interface RS-485	Baud Rate 9600	Data Bits 8 ave Undo to change!	Stop Bits 1	Flow Control None	Parity None	3	Action Edit		

(5) Setting Modbus Gateway

1. Please change the "Gateway mode" to "Serial as Slave".

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	Status	Port Configuration Virtual COM Mod	SSID : Staff Language : English Firmware Version : 0000XN0.I51_052.0000_07031200 Logout bus	
1	Basic Network Diject Definition Field Communication But & Protocol	Modbus Gateway Definition Serial Port Sport-0 Serial as Slave	Device Slave Mode 5 Listen Port Serial Protocol Enable 3 Slave Mode: Enable 502 (1~65535) RTU Edit	
	Data Logging	Item	Setting	
	Security	Response Timeout	1000 ms (1~65535)	
	Administration	Timeout Retries	0 times (0~5)	
	Administration	OBh Exception	Enable	
	Service	► Tx Delay	Enable	
		TCP Connection Idle Time	300 sec (1~65535)	
		Maximum TCP Connections	1 connections (1~4)	
		TCP Keep-alive	Enable	
		Modbus Master IP Access		
		Message Buffering	Lable (7)	
			Save	

Q11: How to emulate a com port when the IOP760AM is set in the virtual com server mode?

A11: The virtual com port can be emulated by the tool "com0com" and the "hub4com". Please download the software from the sourceforge link and then unzip them.

[com0com]:

https://sourceforge.net/projects/com0com/

[hub4com]:

https://sourceforge.net/projects/com0com/files/hub4com/2.1.0.0/hub4com-2.1.0.0-386.zip/download Please refer to the following steps to emulate the virtual com port.

Step 1. Install the "com0com" tool and then reboot the computer.

Setup_com0com_v3.0.0.0_W7_x64_signed

Setup_com0com_v3.0.0.0_W7_x86_signed

Step 2. Run the "com0com" operation file "Setup(setupg.exe)" and type your unused com port number on Virtual Port Pair CNCA0. Select the "emulate baud rate" and click the "Apply" button.



Step3. Run the command line window and move to the "hub4com" file path. Type the command com2tcp-rfc2217 \\.\CNCB0 192.168.0.76 4001

The IP address 192.168.0.76 is the Virtual COM server of IOP760AM, and the 4001 is the TCP port.



Step4. The com port message can be run over TCP/IP.

Q12: How to intall the Wi-Fi antenna?

A12: The Wi-Fi antenna should be installed parallel.





Q13: How to make the IOP reboot everyday?

- A13: Please follow these steps :
- (1) Add a schedule to the IOP760. (Object Definition -> Scheduling -> Configuration)

Status	Configuration						
Basic Network	Time Sched	ule Configuration					
Object Definition	Item		Setting				
Scheduling	Rule Name		Daily Reboot				
Grouping	Rule Policy		Inactivate the Selected Days and Hours Below.				
External Server	Time Period Definition						
Certificate	ID	Weel	Day	Start Time (hh:mm)	End Time (hh:mm)		
Field Communication	1	Every Day	· ·	00:00	00:01		

(2) Synchronize with your PC or another NTP server. (Administration -> System Operation -> System Time)

Status	Password & MMI > System Inform	ation System Time System Log Backup &	Restore 🕨 Reboot & Reset			
Basic Network	System Time Configuration					
Object Definition	Item	Setti	ng			
Field Communication	Synchronization method NTP Service	PC				
Security	Synchronize immediately	Active				
Administration	Time Synchronization Results Close					
Oconfigure & Manage		Sync Result				
• System Operation	Thu Dec 01 202	2 15:46:26 GMT+0800 (台北标准时间)				

(3) Select the reboot setting to "Time Schedule" and chose the schedule that you add in step 1.

Status	Password & MMI > System Infor	mation System Time System Log Backup & Restore Reboot & Reset
Basic Network	System Operation	
Object Definition	Item	Setting
Field Communication	Reboot Reset to Default	Time Schedule (1) Daily Reboot (1) Daily Reboo
Security Administration		Save
Configure & Manage System Operation FTP		

Q14: It does not recover to the factory default when I press the reset button.

- A14: Please follow these steps:
- (1) Please power recycle the IOP760.
- (2) Press reset button in 5 seconds.
- (3) Hold the reset button until the power LED blinks in 1 second. (DO not hold the button until the power LED blinks in 0.1 second.)
- (4) Release the reset button and power recycle.the IOP760.

Q15: I do not search the Ethernet MAC address from the Cisco AP client list when I use the WIFI bridge mode of the IOP760/IOP760AM. What should I do?

A15: The IOP760/IOP760AM works with the 3-Address rule when it uplinks to the wireless router. Users can search the Ethernet device with the MAC Address of the IOP760/IOP760AM.

The combination of the MAC address is

[The first three MAC Address of IOP760/IOP760AM] + [The last 3 MAC Address of the Ethernet device]