elo

IDS IoT Guide

IoT Setup for IDS04 and IDS54



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Local Webpage Access



The IDS04 device has a network and device settings interface called "Local Webpage" which can be accessed via computer internet browser.

The Local Configurations Webpage can be accessed either with a computer on the same network as the IDS (Ethernet or Wi-fi) or offline with a direct connection with the IDS via Ethernet cable.

Access Local Webpage via Ethernet DHCP assigned IP

Ensure your IDS is connected to the same router/internet domain as your PC before you get started. NOTE: Please use the Ethernet port located at the bottom of the I/O as shown in the image below.



Access Local Webpage via Ethernet DHCP assigned IP (continued)

- 1. Check Information tab (shown below) in OSD menu (Click "→" in the information page to proceed to page 2)
- 2. Open PC web browser and key in the assigned IP (ex. 192.168.001.166)

NOTE: If the IP address is black, the IDS is connected via Ethernet. If it is blue, the IDS is connected via Wi-Fi.



Set up IDS via local webpage offline

- Ensure your IDS is connected to the PC with an Ethernet cable.
- To access the local webpage (offline) you must configure Static IP on your selected PC. Please follow the instructions on the proceeding pages for your preferred OS.

NOTE: Please use the Ethernet port located at the bottom of the I/O as shown in the image below.



Send MDC to enable IDS Ethernet static IP

Equipment you need

- IDS device
- Serial port to RS232 to USB cable, or serial port to USB cable.
- PC (Windows)
- 1. Connect device serial port (RS232) cable to audio jack on computer
- 2. Run RS232 MDC tool "USR-TCP232-Test, RS232 to Ethernet connection"
- 3. Select "PortNum" to match COM port (USB) in use.
- 4. Open connection with "Open"

File(F) O	otions(O)	Help(H)
-COMSettin	ge	
PortNum	СОМЗ	3
BaudR	9600	-
DPaity	NONE	-
DataB	8 bit	-
StopB	1 bit	•
<u> </u>	Close	·

Send MDC to enable IDS Ethernet static IP (continued)

- 5. Click checkbox "Send As Hex"
- 6. Clear out the extra hex in the text box at the bottom.
- 7. Enter MDC command for "Disable DHCP" (enable static IP Ethernet) into text box at the bottom:
 - 02 6E 85 FF 04 E4 00 00 DA 03
- 8. Click "Send", and verify there is a response from the IDS device



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Set Up Static IP - Windows OS

Assign PC Static IP setting:

To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

- 1. Select Ethernet Properties
- 2. Select TCP/IPv4
- 3. Click Properties
- 4. Set PC's static IP address: 192.168.87.X (X=1~255, X cannot be 87)
- 5. Set Subnet mask: 255.255.0.0
- 6. Click OK

乙太網路 Properties X	網際網路通訊協定第 4 版 (TCP/IPv4) Properties	
etworking Sharing	General	
Connect using:	You can get IP settings assigned automatically if your network s this capability. Otherwise, you need to ask your network admin for the appropriate IP settings. Obtain an IP address automatically	supports istrator
This connection uses the following items:	Use the following IP address:	
 ✓ Client for Microsoft Networks ✓ File and Printer Sharing for Microsoft Networks ✓ QoS 封包排程器 	IP address: 192.168.87.187 Subnet mask: 255.255.0.0 Default estematic 255.255.0.0	
 ✓ 銀際網路通訊協定第4版(TCP/IPv4) ▲ Microsoft Network Adapter 多二路通訊協定 ✓ Microsoft LLDP 通訊協定驅動程式 	Obtain DNS server address automatically Use the following DNS server addresses: Preferred DNS server:	
Description	Alternate DNS server:	
傳動控制通訊協定/網際網路通訊協定(TCP/IP)。這是預 設的廣域網路通訊協定,提供不同網路之間的通訊能 力。	Validate settings upon exit Adva	anced

Set Up Static IP - Mac OS

Assign PC Static IP setting:

To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

- 1. Go to System Settings
- 2. Select Network
- 3. Select LAN
- 4. Click Details...
- 5. Select TCP/IP
- 6. Click Configure IPv4 dropdown
- 7. Select Manually
- 8. Click OK



	< > USB 10/100/1000 LA	N
USB 10/100/1000 LAN Connected TCP/IP	Configure IPv4 IP address	✓ Using DHCP Using DHCP with Manual Address Manually
	Subnet mask	Off
802.1X	Router	192.168.1.1
Proxies Hardware	DHCP lease	Renew DHCP Lease
	DHCP client ID (if required)	
	Configure IPv6	Automatically 🗘
	Router	fe80::4648:b9ff:fe5e:7470
	IPv6 address	Prefix lenath
R.		Cancel

Set Up Static IP - Mac OS (continued)

- 9. Set PC's static IP address: 192.168.87.X (X=1~255, X can't be 87)
- 10. Set Subnet mask: 255.255.0.0
- 11. Click OK

•••	< > USB 10/100/1000 LAN	
USB 10/100/1000 LAN • Connected	Configure IPv4	Manually ᅌ
TCP/IP	IP address	192.168.87.187
A DNS WINS	Subnet mask	255.255.0.0
802.1X	Router	192.168.1.1
Proxies Hardware	Configure IPv6	Automatically ≎
	Router fea	80::4648:b9ff:fe5e:7470
	IPv6 address	Prefix length
	2001:1388:1e42:7845:4ea:52bb:a997:17f8	64
	2001:1388:1e42:7845:e516:5ff1:1582:f79a	64
		Cancel OK

Set Up Static IP - Linux Ubuntu 22.04

Assign PC Static IP setting:

To access the local configuration webpage via Ethernet, it is required to modify the static IP for the host machine (PC).

- 1. Go to System Settings
- 2. Select Network
- 3. Click Wired configuration
- 4. Select IPv4



Remove Connection Profile

Set Up Static IP - Linux Ubuntu 22.04 (continued)

- 5. Select "Manual"
- 6. Set PC's static IP address: 192.168.87.X (X=1~255, X cannot be 87)
- 7. Set Subnet mask: 255.255.0.0
- 8. Click Apply



Access Local webpage with static IP address

Open PC web browser and key in IP: 192.168.87.87/page0.asp



Caution: iOS Safari and Android browser may display IDSx4 Local Webpage with wrong resolution.

The home page(System Status) to IDSx4:

\leftarrow C	192.168.87.87/page0.asp	
ēlo	🍫 System Status	
۲	Device Model Elo-IDS-IoT-ES858	Software Serial Number J23H008659
쁆	₽ FW Version	
	System 0.304	LAN 0.303
* \$	🔭 LAN Status	

Local webpage: Wi-Fi network connection

Note: Review **QIG600246** (QIG IDS Wi-Fi adapter) for Wi-Fi adapter connection instructions.



Caution: Remove AC power to the IDSX4 Display before installing /uninstalling Wi-Fi adapter or LAN cable

Local webpage: Wi-Fi network connection (Cont'd)

- 1. Click "Wireless Setup" on menu
- 2. Click "SCAN NETWORK" to select Wi-Fi access point



Local webpage: Wi-Fi network connection (continued)

3. Select SSID and click "CONNECT"

🕒 # Wireless I	Network - Work - Microsoft Edge							-		×
🛕 Not se	ure 192.168.1.102/neighb	or.asp?neborpge=2							Q	A
#	SSID	MAC Address	т	Mode	Channel	Authentication	Encryption *	Mbps	Signal%	
0	kuo pro 5g	E4:BE:ED:77:F5:28	Infra	b/g	44	WPA-PSK	TKIP/AES	867	11	
	ogy (Infra = Infrastructure, Adl	noc) E								

Note: IDSx4 support WPA2-PSK security mechanism to Wi-Fi Protected Access.

Local webpage: Wi-Fi network connection (continued)

4. Type passphrase and click "CONFIRM" to start Wi-Fi connection

\leftarrow	С	\bigcirc	192.168.87.87/wifi_setting.asp				III (3	[] ∑=	÷	
ē	0		笼 Wireless Setup							
			SSID							
Ŀ	۲		Elo_IDSx4_AP	SCAN NET	VORK					
			BSSID(MAC Address)		Topology		Band mode			
둼	5		60:38:E0:B2:7D:71		Infrastructure	~	802.11b	~		
			BandWidth		Authentication Mode		Encryption Type			
1	2		Auto 20/40 MHz	~	WPA2-PSK	~	AES	~		
\$	Þ		♥ WPA-PSK/WPA2-P	SK						
			Passphrase	8						
									CONFIRM	

Local webpage: Wi-Fi network connection (continued)

- 5. Click "Info" on menu
- 6. Confirm Wi-Fi IP address is assigned by router in "WLAN Status" section

Note: If the LAN port on the IDS Display is connected, it will have priority over the Wi-Fi adaptor

\leftarrow	С	\oplus	192.168.87.87/page0.asp		▦	(3 C)	£≡	5
ēl	0		MAC Address					
6	<u> </u>	Info						
몲	5		TE WLAN Status					
			IP Address	Subnet Mask	De	efault Gatewa	ау	
(;	•		192.168.1.142	255.255.255.0	19	2.168.1.1		
*1	•		MAC Address 5C:F3:70:BD:E5:BB					

Local webpage: Static IP configuration

Network Setup page: Manual static IP settings for Ethernet and Wi-Fi

elo	IP Setup		
Ľ			
윪	Network Setup s	Subnet Mask 255 255 0	Default Gateway
۰ م	Wireless IP Setup		
-			
	IP Address 192 · 168 · 1 · 137	Subnet Mask 255 · 255 · 255 · 0	Default Gateway
	✿ DNS IP Setup		
	DNS Server 192 · 168 · 1 · 1		CONFIRM

Local webpage: IoT service selection

1. Click "Service Selection" on menu





Caution: IoT will disconnect when no video signal detected, and system will go to sleep. (Energy Saving mode default Enabled.)

Connect device to EloView

1. Click "Add Device" in "Devices Tab"



2. Add serial number and select "Connect Mode", click "Save"

Add Devices			
Device Name	Serial Number J23H002766	Device Mode @ Connect	~
Device Name	Serial Number	Device Mode Control	~

Connect device to EloView (continued)

3. Confirm IDS is visible and online (green) in EloView



Eliminate device in EloView

- 1. Click the delete waste container icon iii
- 2. Click "Confirm" to eliminate
- 3. Reboot IDS device (unplug/re-plug AC power)

35 Devices	5							Add Tag Delete
Status	Device Name	Serial Number	Software Version	Group Name	Tags	Content	OS360 Status	Delete
	IDSADS1111	IDSADS1111	1.000.1.000	NA	NA		Not Found	Ū
				Are	you sure you want t	to delete the "IDSADS11"	11" device?	
					Cancel	Confir	m	

Connect device to Crestron via Ethernet/Wi-Fi



- 1. Access the Crestron settings tab in the menu for CCV2
- 2. Click "APPLY" when config is complete



IDS04/54 are Crestron certified and are compatible with the Crestron XiO Cloud "Service"

Firmware update via OTA in EloView

- 1. Login to EloView
- 2. Go to Software tab
- 3. Click text "Update available" to start OTA

	Device Details	Device Name J23H008637	Serial Number J23H008637	Software Version 0.308.0.307.0.015	Site Address US	×
	Info	Software			Uploa	d Logs Edit
	Settings Software Whitelist Reboot Timer	Version 0.308.0.307.0.015 Lest Updated 2024/1/16 下午3:49:55		OS Update Update available ③ Log Storage 144MB		
© Copyright	t 2024 Elo Touch Solutions, Inc.		Caution: DO NOT OR UNPLUG AC P DURING FW UPDA	TURN OFF POWER OWER CORD ATE		

Firmware update via OTA in EloView (continued)

Firmware updating

Note: Message box will appear for about 8 minutes until firmware update is completed.





Firmware update via OTA in EloView (continued)

4. Confirm update

Note: After firmware update is complete, the IDS will reboot automatically.

5. Check Information page in the OSD menu to confirm Firmware version has successfully updated. (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)



Firmware update via OTA in OSD menu

- 1. Start OTA
- 2. Power on IDS
- 3. Press menu button to open the On-Screen-Display Menu.
- 4. Click Button "FW Update (OTA)" in Configuration page





Caution: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

Firmware update via OTA in OSD menu (continued)

Firmware updating

Note: Message box will appear for about 8 minutes until firmware update is completed.





Caution: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

Firmware update via OTA in OSD menu (continued)

4. Confirm update

Note: After firmware update is complete, the IDS will reboot automatically.

5. Check Information page in the OSD menu to confirm Firmware version has successfully updated. (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)



Firmware Flash via USB

1. Download firmware package and store into USB flash (.pkg)



NOTE: The USB flash needs to be formatted to **FAT32** file system and must be **less than 32GB.**

neral Tools Ha	rdware Sharing Customize	
10013 110	Taware Sharing Custoninze	
BOO	DTME	
me: LISB	Drivo	
vpe: USB	Drive	
/pe: USB le system: FAT:	Drive 32	
ype: USB le system: FAT: Used space:	Drive 32 28,602,843,136 bytes	26.6 GB
ype: USB le system: FAT: Used space: Free space:	Drive 32 28,602,843,136 bytes 2,383,626,240 bytes	26.6 GB 2.21 GB
ype: USB le system: FAT: Used space: Free space: Capacity:	Drive 32 28,602,843,136 bytes 2,383,626,240 bytes 30,986,469,376 bytes	26.6 GB 2.21 GB 28.8 GB

Firmware Flash via USB (Continued) Disk partition for USB drive larger than 32GB (Win10/11)

- A. Right-click the Start button and select "Disk Management".
- B. Right-click on the USB Disk and select "New Simple Volume..."
- C. Create new volume less than 32GB(32767MB) and assign drive letter (default)
- D. Make sure using FAT32 format (default) and click next till new volume created.



- 2. Power on IDS and insert USB after IoT chip has loaded
- 3. Remove USB (Wi-Fi Adaptor) security cover



Confirm IoT has loaded

- 4. Press OSD Menu Button.
- 5. Go to Information page, verify that FW version is NOT showing "X.XXX" (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90seconds.)





- 6. Connect the USB drive with .pkg file from Step 1.
- 7. Go to Configuration page, Click Radio Button "FW Update (USB)" in OSD menu





Caution: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

Firmware flashing

- Firmware flash will start if there is a valid firmware file in the USB drive
- Message box will appear for about **8 minutes** until firmware flash is completed.

(FW update fail at a)0-50%: will auto retry, b)51-97%: need manual recover IoT, c)98%-99% do FW update again manually)





Caution: DO NOT TURN OFF POWER OR UNPLUG AC POWER CORD DURING FW UPDATE

Confirm flash verification

Note: After firmware flash is completed, the IDS will reboot automatically.

- 8. Check Information page in the OSD menu to confirm Firmware version has successfully flashed. (IoT FW will display X.XXX until IoT chip has loaded. Please wait ~90 seconds.)
- 9. Remove USB drive

Before





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After