

Citizen offers a range of network cards to suit every application. The compact network cards provide a quick and easy solution for Windows applications. Our Premium range of network cards offer a wide selection of network and security protocols making it perfect for more complex solutions that benefit from remote control and monitoring features.

Label Printers	CL-E300 CL-E321	CL-E300EX CL-E321EX	CL-S400	CL-S521II CL-S621II	CL-S6621	CL-E720	CL-S700II
Standard (built in)	LAN,USB,Ser	USB,PwrOut	USB,Ser	USB,Ser	USB,Ser	LAN,USB	USB,Ser,Par
Compact LAN	Built In	IF2-EFX1	IF1-EFX1	IF5-EFX1	IF1-EFX1	Built In	IF5-EFX1
Premium LAN		IF2-ES04	IF1-ES04	IF5-ES04	IF1-ES04	IF1-ES04	IF5-ES04
Compact WiFi		IF2-WF05	IF1-WF04		IF1-WF04	IF1-WF04	
Premium WiFi		IF2-WF5x	IF1-WF5x	IF5-WF5x	IF1-WF5x	IF1-WF5x	IF5-WF5x
WiFi Upgrade		UPG-WF5x	UPG-WF5x	UPG-WF5x	UPG-WF5x	UPG-WF5x	UPG-WF5x
Bluetooth		Factory Only					

Premium **WiFi** Interfaces and Upgrades are available in two versions:-

- IFx-WF5S or UPG-WF5S with Standard antenna
- IFx-WF5L or UPG-WF5L with Long Range antenna



WF5S



WF5L

Interface Types



USB: Industry standard **USB 2.0** interface up to 12Mbps.



Ser: RS-232C **Serial** interface 9- or 25-pin connector, speeds up to 115,200bps.



LAN: Local Area Network or **Ethernet** interfaces with traditional RJ45 connector



PwrOut: **USB Power out:** charge devices (5V at 2A).



WiFi: Wireless LAN networking or the option to upgrade existing card



Bluetooth®: local cable-free connection to PC, tablet or phone

Card Model	Type	Speed or Frequency	Config by Browser	Manage by Browser	Config by Utility	Wireless LAN	LAN port	XML	Factory Fitted	Windows	macOS	Linux	iOS	Android
IF1-EFX1 IF2-EFX1 IF5-EFX1	Compact LAN	10/100 Mbps	✓				✓	✓		✓	✓	✓	SDK	SDK
IF1-ES04 IF2-ES04 IF5-ES04	Premium LAN	10/100/1000 Mbps	✓	✓	✓	Upgrade	✓			✓	✓	✓	SDK	SDK
IF1-WF04 IF2-WF05	Compact WiFi 802.11a,b,g,n,ac	2.4/5.0 Ghz 433 Mbps	✓			✓	✓	✓		✓	✓	✓	SDK	SDK
IF1-WF5S IF2-WF5S IF5-WF5S	Premium WiFi 802.11a,b,g,n,ac	2.4/5.0 Ghz 433 Mbps	✓	✓	✓	✓	✓			✓	✓	✓	SDK	SDK
IF2-BT01	Bluetooth Card	Up to 24 Mbps			✓				✓	✓			SDK	SDK

Upgrade refers to a field upgrade available for this card using the official Citizen upgrade. These are identical to the full WiFi card.

SDK requires that Citizen's Software Development Toolkit is used to integrate our printer in to an App for full operation.

Card Model	Type	Protocol & Security																				Wifi Encryption					Authentication										
		DHCP	BootP	ARP/PING	ICMP	IPv4	IPv6	TCP	UDP	HTTP	SSL3.0/TLS1.0	TLS1.0-1.3	FTP/FTPs	TFTP	RAW	LPR	ZeroConf	DNS	SLP	SNMP	SNMPv3	SNTP	SMTP	POP3	IPP/HTTPS	Bonjour	XML	WEP 128/64-bit	WEP + EAP	WPA-PSK	WPA2-PSK	WPA2 Enterprise 802.1x	AES+TKIP	PEAP	LEAP+EAP-FAST	EAP(MD5,TLS,TTLS)	
IF1-EFX1 IF2-EFX1 IF5-EFX1	Compact LAN	✓	✓	✓	✓	✓		✓	✓	✓					✓	✓				✓							✓										
IF1-ES04 IF2-ES04 IF5-ES04	Premium LAN	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓									✓	✓	✓
IF1-WF04 IF2-WF05	Compact WiFi	✓	✓	✓	✓	✓		✓	✓	✓					✓	✓				✓							✓	✓		✓	✓	✓	✓	✓	✓	✓	
IF1-WF5S IF2-WF5S IF5-WF5S	Premium WiFi	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	

Compact Ethernet Cards



IF1-EFX1 PN#: PPS00338S



IF2-EFX1 PN#: PPZ60103S



IF5-EFX1 PN#: PPS00488S

Premium Ethernet Cards



IF1-ES04 PN#: IF1-ES04



IF2-ES04 PN# IF2-ES04



IF5-ES04
PN#: IF5-ES04 (multi-pack)
PN#: 2000405 (single unit)

Compact WiFi Cards



IF1-WF04 PN#: PPZ60108S



IF2-WF05 PN#: PPZ60112S

Premium WiFi Cards



IF1-WF5S PN#: IF1-WF5S



IF2-WF5S PN#: IF2-WF5S
IF2-WF5L PN#: IF2-WF5L



IF5-WF5S PN#: IF5-WF5S
IF5-WF5L PN#: IF5-WF5L

“IFx” refers to different kinds of connectors.

IF1 connector is applicable to:

- CL-S400DT
- CL-S6621
- CL-E7xx

IF2 connector is applicable to:

- CL-E3xxEX

IF5 connector is applicable to:

- CL-S521II, CL-S531II
- CL-S621II, CL-S631II
- CL-S700II, CL-S700IIR
- CL-S703II, CL-S700IIDT
- Also fits Type 1 models

Bluetooth Cards



IF2-BT01 PN#: PPS00277
Factory Fit