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MATRIX COSEC VEGA FAX QUICK INSTALLATION MANUAL



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COSEC VEGA CONTROLLER

Quick Installation Guide



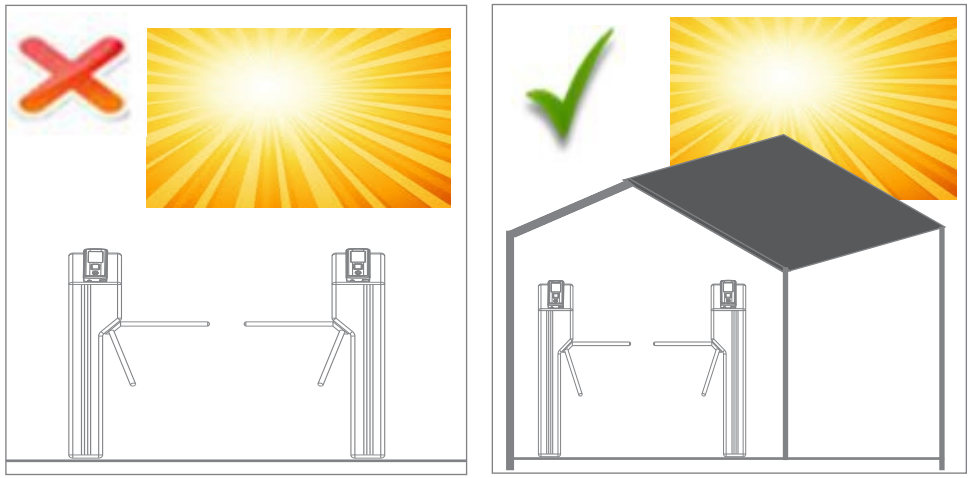
COSEC VEGA FAX/CAX/FAXQ/FOT

MATRIX
SECURITY SOLUTIONS

Pre-Installation Safety Instructions

1. Do not install the device in extremely hot temperature or under direct sunlight on turnstile or at extra bright places. This may affect the LCD and finger print sensor of device. You can do indoor installation or on the turnstile under the roof as shown in **Figure a**.

Figure a



2. You can mount the device on a flat surface such as a wall or near the elevator, close to the access point (door) with surface wiring or concealed wiring as shown in **Figure c**.

3. Recommended height from ground level is upto 4.5 feet.

4. Do not install on unstable surfaces, near volatile inflammable materials, areas where volatile gas is created, where ferromagnetic field or noise is induced, where static is created, such as desks made of plastics, carpets.

5. Do not install the device in outdoor areas which may be exposed to rain, cold and dust. You can do indoor installation or on the turnstile under the roof as shown in **Figure b**.

Figure b

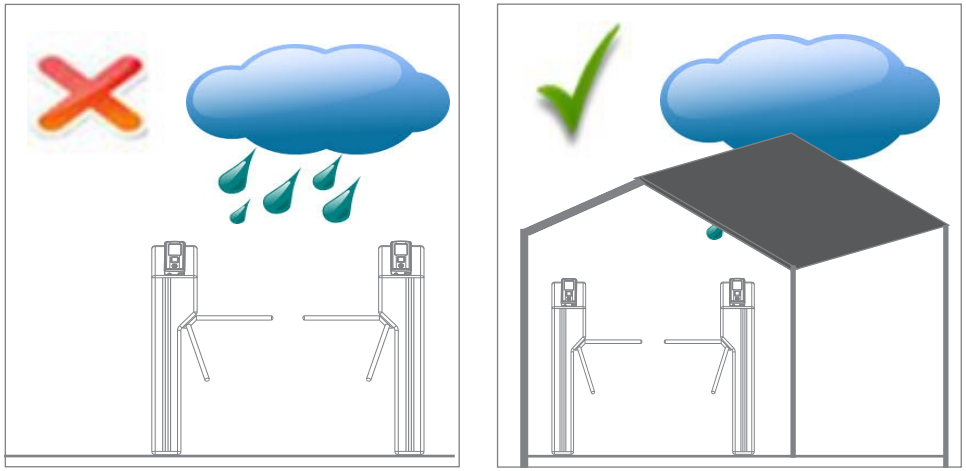
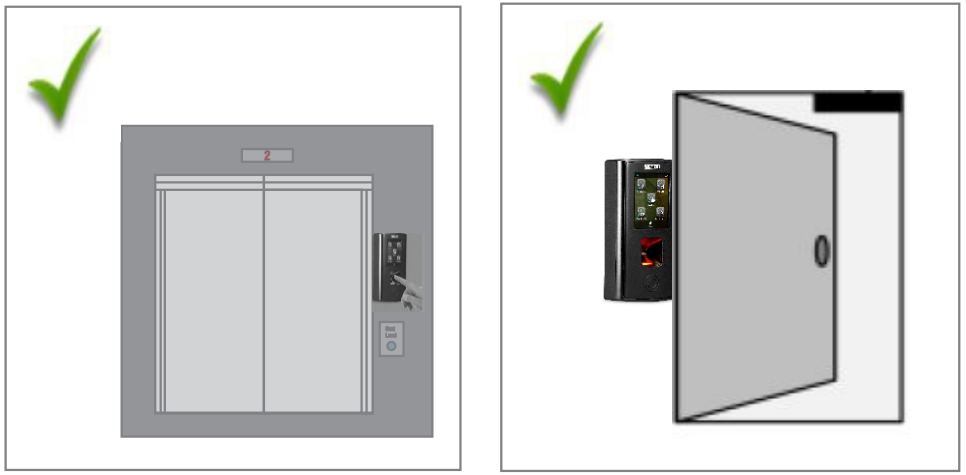


Figure c



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Please read this guide first for correct installation and retain it for future reference. The information in this guide is prevailing at the time of publication. However, Matrix Comsec reserves the right to make changes in product design and specifications without prior notice.

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Warranty
Limited Warranty. Valid only if primary protection is provided, mains supply is within limit and protected, and environment conditions maintained within product specifications. Complete warranty statement is available on our website:
www.matrixvideosurveillance.com

Know your VEGA Controller

Figure 1

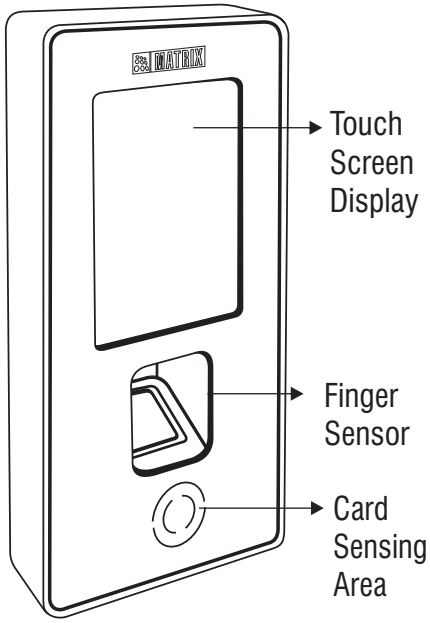
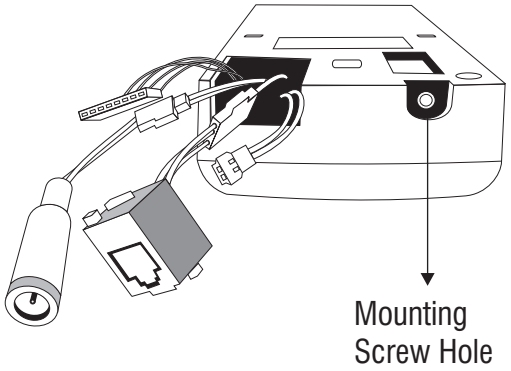


Figure 2

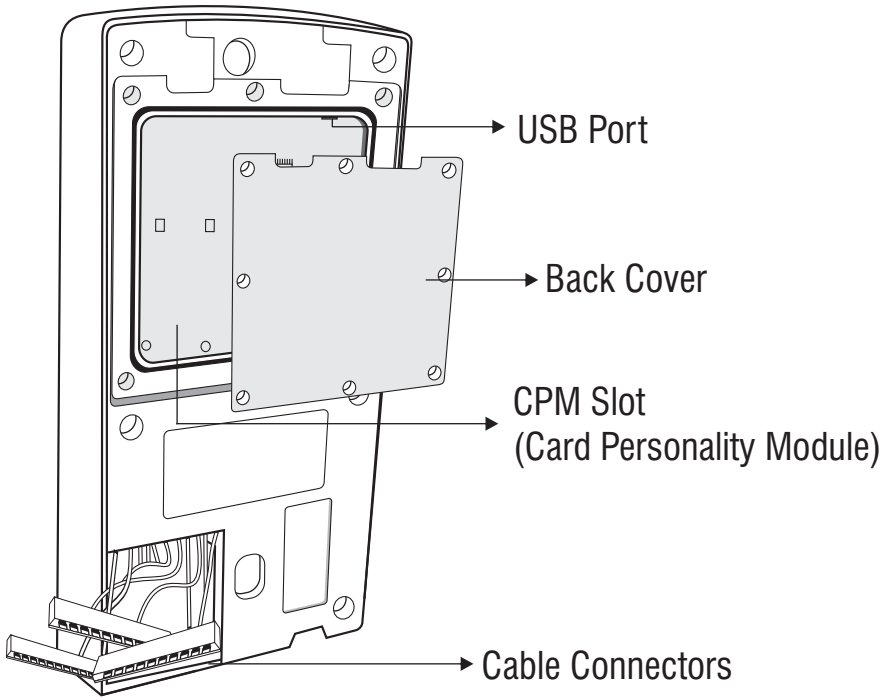


The COSEC VEGA is available in different variants as follows:

1) COSEC VEGA FAX
2) COSEC VEGA FAXQ
3) COSEC VEGA CAX
4) COSEC VEGA FOT

Refer Technical Specifications for details.

Figure 3



Installing Card Personality Module

1. Remove the back cover of your device by removing all screws as shown in **Figure 4**.

2. Hold the Card Personality Module with the smooth surface towards you, and the narrower end facing down as shown in **Figure 5**.

3. Lower the module into the CPM slot as shown in **Figure 6**.

Figure 4

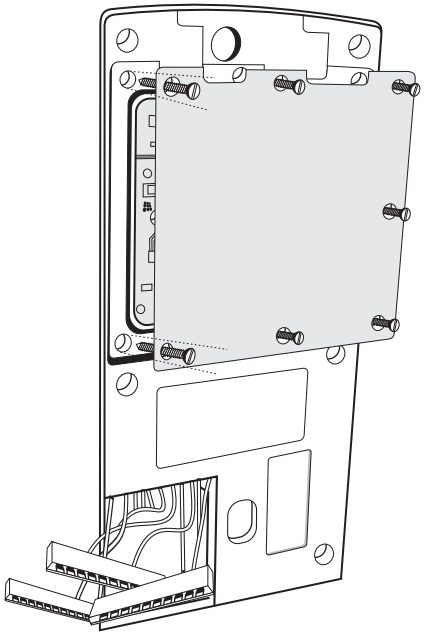
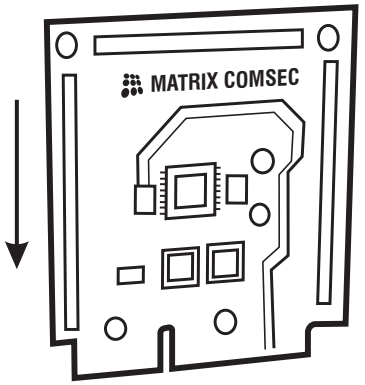


Figure 5



4. Press the free end of the module inwards with your fingertips to lock it in place as shown in **Figure 7**.

5. Replace the back cover as shown in **Figure 8**.

Figure 6

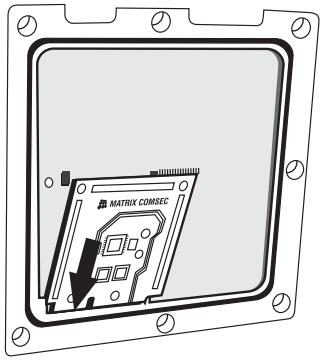


Figure 7

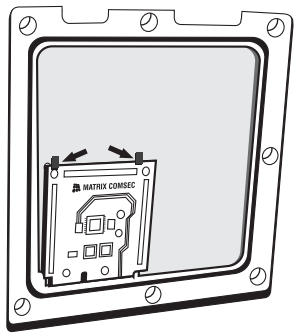
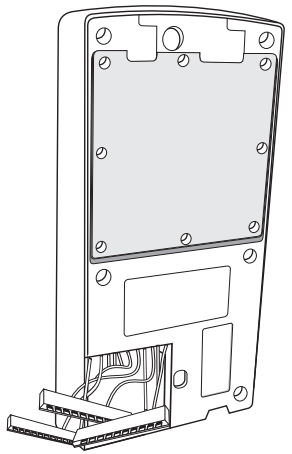


Figure 8



What your package contains

- COSEC VEGA Controller Unit
- Mounting Plate with screw M3/6
- 2 Screws M5/25
- 2 Screw Grips
- Power Supply Cable (with DC Jack)
- Power Adpater 12VDC,2A
- Exit Switch Cable
- EM Lock Cable
- Ethernet Cable with RJ45 Plug
- Auxiliary I/O Cable

For Vega FOT only Power Supply Cable and Ethernet Cable with RJ45 Plug will be provided.

Things you will need

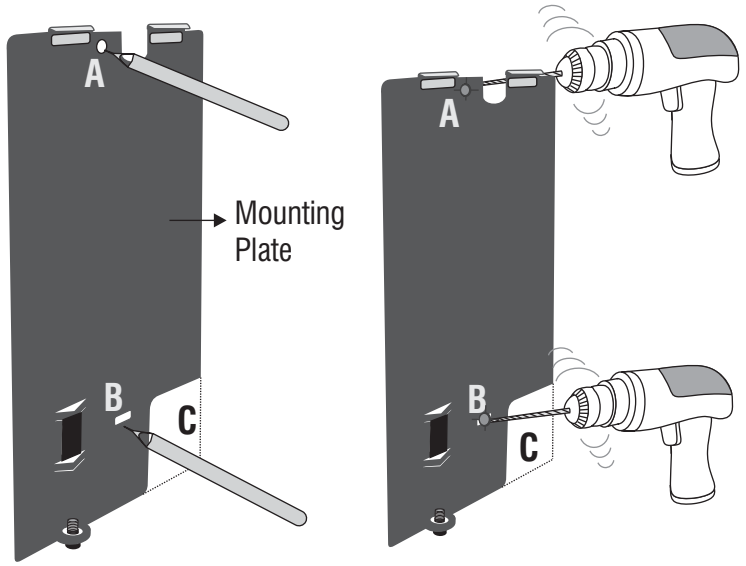
- A Power Drill
- A Wire Stripper
- A Screw Driver Set
- Insulation Tape
- Access to COSEC Server application to configure COSEC Vega.
- A Stand-alone computer with a Web-browser to change the network settings of COSEC Vega.

- Installation and servicing should be done only by a qualified technician.
- There are no user-serviceable parts inside.
- Opening or removing the device cover may result in electric shock or exposure to other hazards.
- Use this product only for the purpose for which it was designed.

Installation Instructions

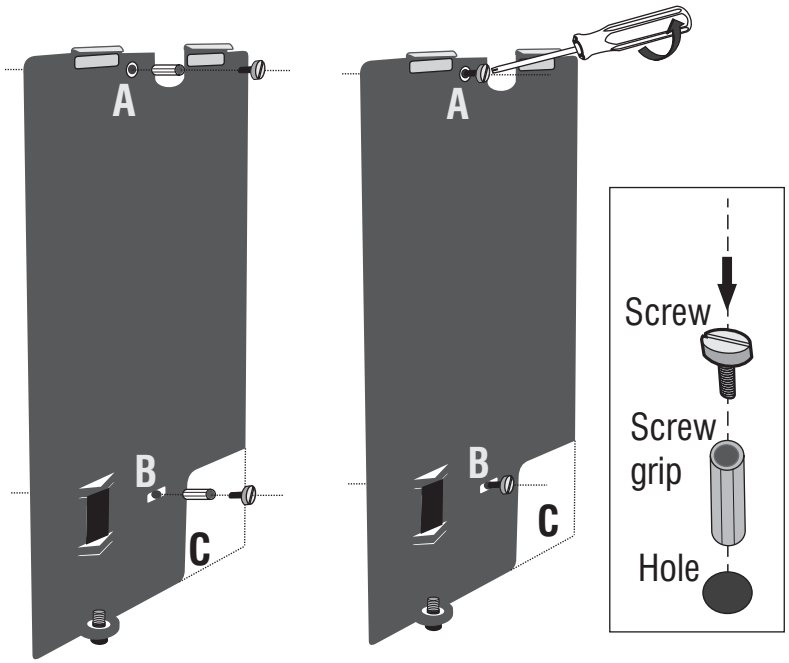
Step 1: Trace screw holes A and B on Mounting Plate. If required, trace out rectangular opening C also. Drill screw holes along the traced markings.

Figure 9



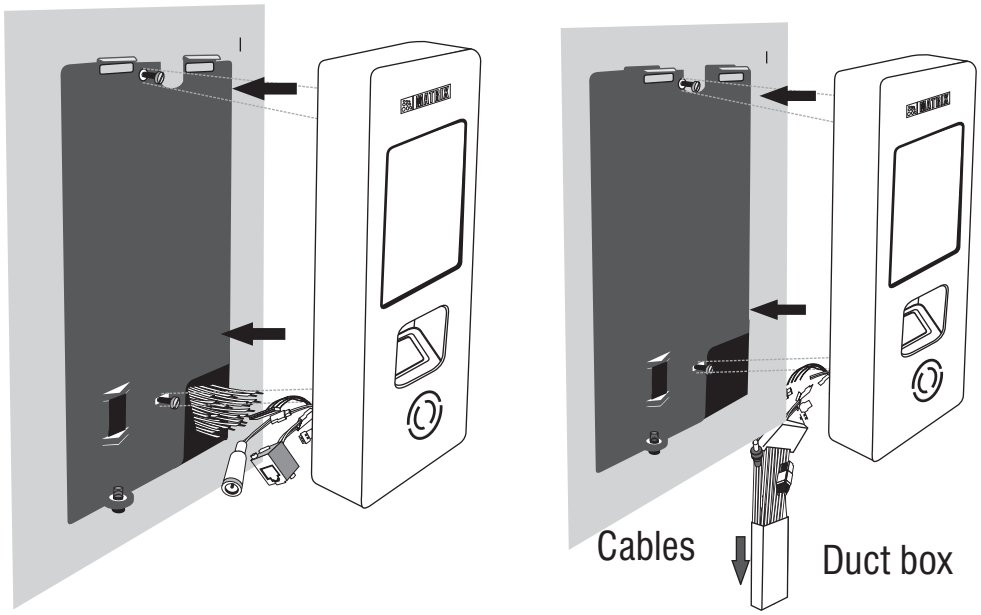
Step 2: Fix Mounting Plate with supplied screw grips & screws.

Figure 10



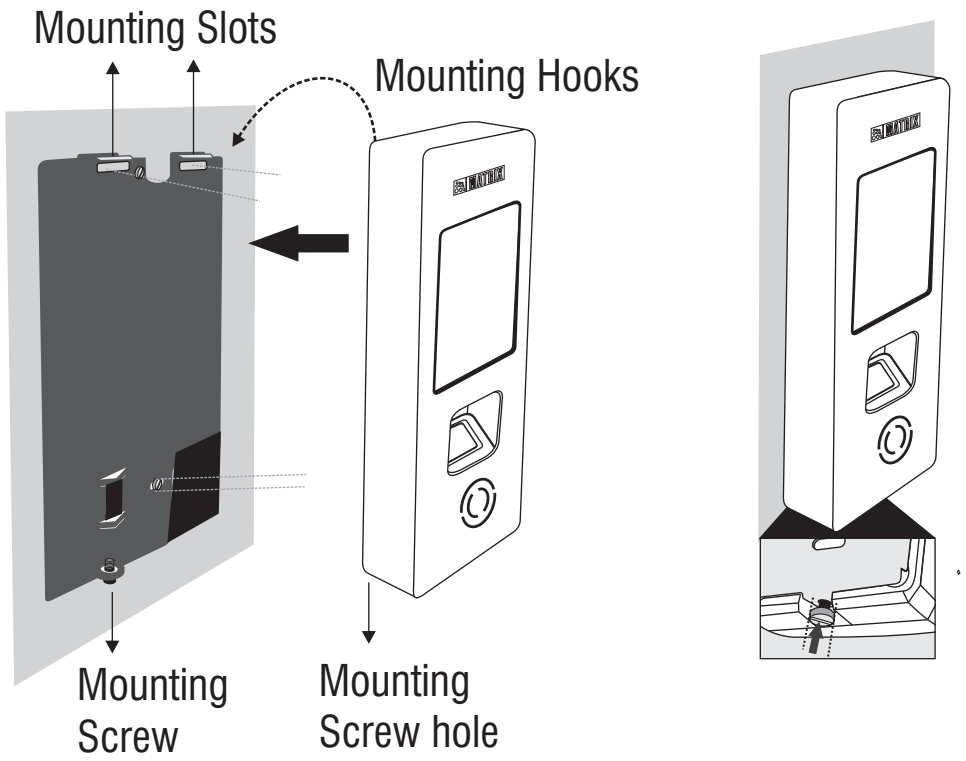
Step 3: Connect cables and lead all the cables through the rectangular hole into the electrical box recessed in the wall i.e. **concealed wiring** or through the bottom of device in **non-concealed wiring.**

Figure 11



Step 4: Align COSEC VEGA with the Mounting Plate and slide downwards.

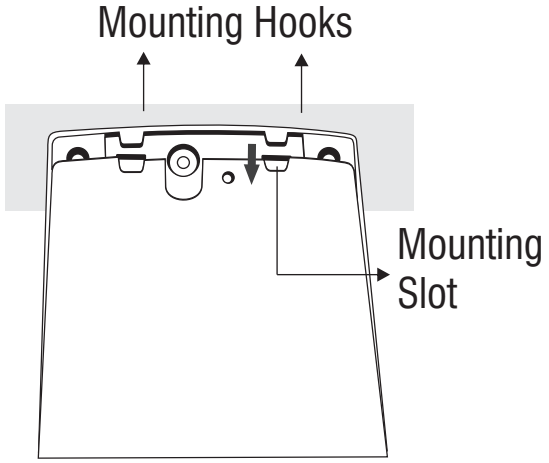
Figure 12



Step 5: Fix the Mounting Hook of the door by sliding the back side of VEGA door into the Mounting Slot of mounting plate.

- Insert the mounting screw into the mounting screw hole at the bottom of the device.
- Tighten screws at the bottom as shown in **Figure 13**.

Figure 13

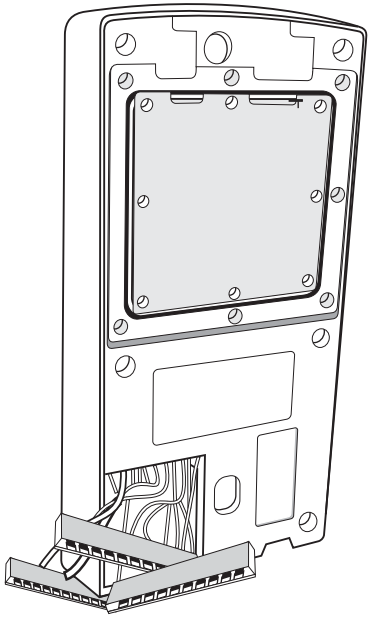


Connecting the Cables

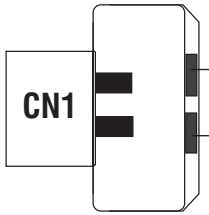
- Make the electrical connections of Power, Exit Switch, EM Lock, Ethernet, AUX I/O Connector and External Reader as per respective wire color code mappings shown in respective connectors.

***For Concealed wiring; first draw out sufficient length of the cables from the rectangular hole you have made on the mounting surface.*

Figure 14

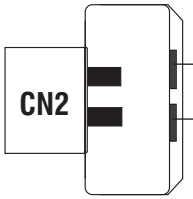


Power



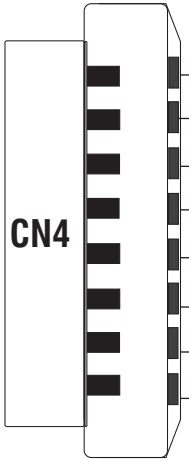
1 **GND**- Black
2 **+12VDC IN**- Red

Exit Switch



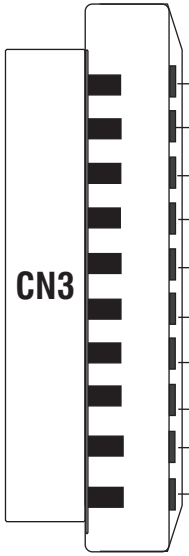
1 **Exit Sw**- White
2 **GND**- Black

Ethernet



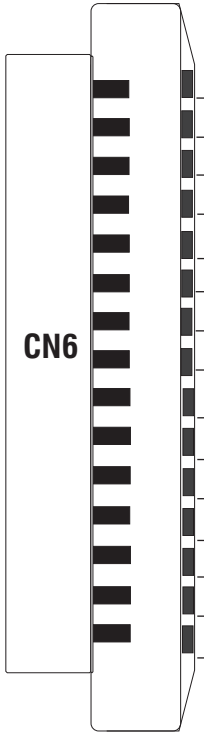
1 **UNUSED**-NA
2 **COM 2-**Yellow
3 **UNUSED**-NA
4 **COM 1-** Green
5 **RX+ -**Dark Blue
6 **RX- -**Light Blue
7 **TX+** -Red
8 **TX+** -Light Brown

EM Lock



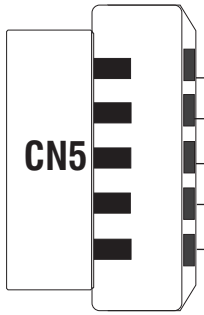
1 **LOCK TMPR** -Light Blue
2 **LOCK RLY NO** - Yellow
3 **LOCK RLY COM**- Dark Brown
4 **LOCK RLY NC** - Dark Blue
5 **GND**-Black
6 **DOOR STS**-White
7 **UNUSED**-NA
8 **GND**-Black
9 **UNUSED**-NA
10 **+12V LOCK**-Red

External Reader



1 **+12V RDR-**Red
2 **GND**- Black
3 **GREEN LED**- Orange
4 **RED LED**- Dark Brown
5 **STATUS**- Light Brown
6 **ALARM**- Violet
7 **BEEPER**- Yellow
8 **HOLD**- Dark Blue
9 **DATA 0**- Green
10 **DATA 1**- White
11 **TMPR/CTRL**- Light Blue
12 **UNUSED**-NA
13 **RS 232 RX-** Pink
14 **RS 232 TX-** Grey
15 **UNUSED**-NA

AUX I/O Connector



1 **AUX RLY NC**- Dark Blue
2 **AUX RLY NC**- Dark Blue
3 **AUX RLY NO**- Yellow
4 **AUX IN +**- White
5 **GND-** Black

Connecting to the COSEC Server

Assigning IP Address & Other Network Settings

- Open the Web browser in your computer.
- Enter the IP address of the VEGA Controller "default: **http://192.168.50.1**" , in the address bar of the browser and press the Enter key on your computer keyboard.
- When prompted, enter the login credentials for the Door.
  Default Username: **Admin**
  Default Password: **1234**
- Click **OK**.
- On the Door Web page, select the **Settings** link. Click **LAN Settings**. Enter the IP address to be assigned to the Vega Controller and configure Subnet Mask, Gateway IP address, Preferred and Alternate DNS as required as shown in **Figure15**.
- You can also configure **Wi-Fi** or **Mobile Broadband** settings.
- Click **Basic Profile** and select the server as **COSEC CENTRA** or **COSEC VYOM** and the door type as **Direct Door** or **Panel Door** as shown in **Figure16**.

- Click **Server Settings** and enter the URL and Port of the selected server with which device is to be connected as shown in **Figure 17**. For COSEC VYOM, you must specify Tenant ID also.
- Then click **Submit** to save the Settings.
- The device will come online if the monitor service is running.

Figure 15

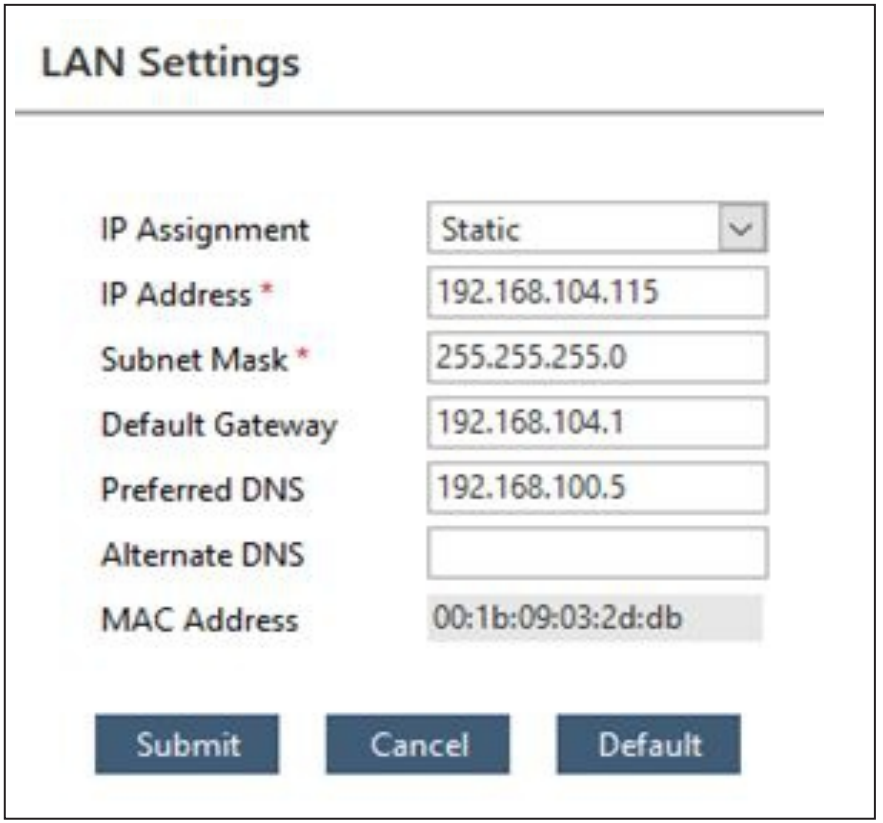


Figure 16

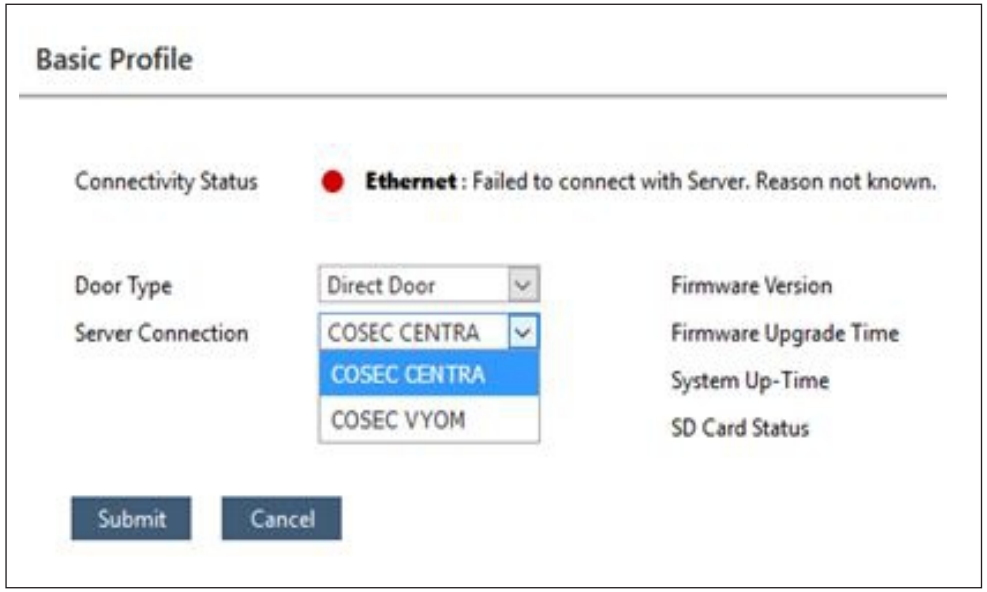
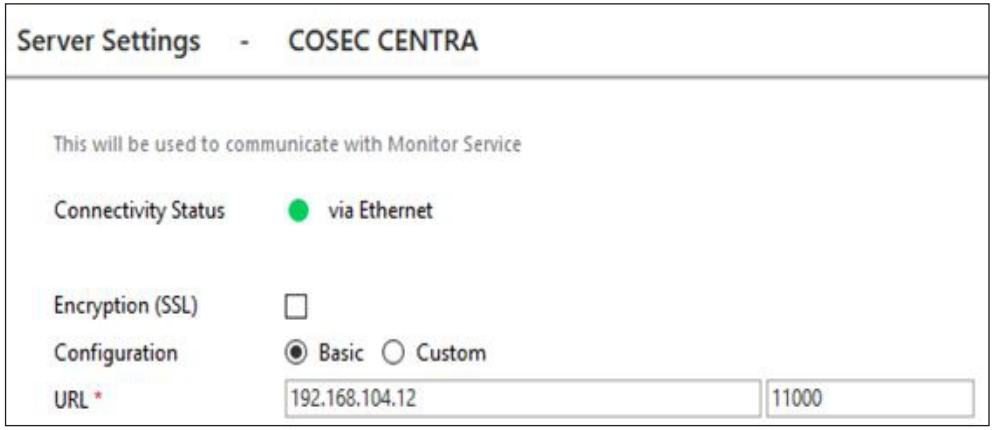


Figure 17



Technical Specifications

Specifications	FAX	CAX	FAXQ	FOT
Sensor	Yes	No	Yes (STQC Certified)	Yes (Suprema SFM 5030)
Credential Support	Face*, Card, Pin and Finger	Face*, Card and Pin	Face*, Card, Pin and Finger	Face*, Pin, RFID and Finger
User Capacity	50,000			
Type of Card	EM Prox, HID Prox, HID iclass & **MIFARE®**			EM Prox
USB	1 USB for Data Transfer and for 3G-4G dongle			
Communication Port	Ethernet, Wi-Fi, Mobile Broadband (3G-4G)			Ethernet, Mobile Broadband
Reader Interface Types	RS232 and Wiegand			No
Reader Power Output	Internal 12 VDC @ 0.2A			No

* *For Face Recognition to work, make sure you have - IPC/ IDS/ COGNIFACE EBS200*

Specifications	FAX	CAX	FAXQ	FOT
Door Lock Relay	Relay SPDT, FormC, 1A@ 30 VDC			No
Door Lock Power	Internal 12VDC @0.5A or External			No
Auxiliary Outputs Relay	Relay SPDT, FormC, 1A@ 30 VDC			No
Input Power	12 VDC @2A			
Built in POE	IEEE 802.3 af Class; Max 12W			No
Built in Wi-Fi	Yes			No
Built in BLE	Yes			
Battery Backup	No Internal battery backup, External Through PSBB			
Operating Temperature	0^0C to $+50^0$C			

Wifi and Bluetooth Specifications

Model Name		WL18MODB (Test Grade: WL 1835MODCOM8B/WL 1835MODGBMOC/WL 1831MODGBMOC)
Brand Name		Texas Instrument
EUT Type		WiFi and Bluetooth Module
Compliance (Standard/Directive)	EMC (Europe)	EN 301 489-1 V2.1.1
		EN 301 489-17 V3.1.1
	RED (Europe)	EN 300 328 V2.1.1
	Health (Europe)	EN 62311:2008
	LVD (Europe)	EN 60950-1:2006+A11:2009+A 12:20 11 +A2:2013
	ROHS	EN 50581:2012
	FCC ID (USA)	Z64-WL18SBMOD
Wireless Technology and Frequency range		WLAN2.4 GHz Band:2412MHz~2472 MHz Bluetooth : 2402~2480MHz
Rated Power (EIRP)		<20dBm
Mode		802.11 b/g/n HT20/HT40 Bluetooth BR, EDR, LE v4..2

FCC Compliance

47CFR FCC PART 15B

Information to the user

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits of Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial enviroment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CE RoHS COMPLIANT FCC

Compliance	FAX	CAX	FAXQ	FOT
EMC Directive 2017/30EU(CE)	✓	✓	✓	✓
Low Voltage Directive 2014/ 35/ EU(CE)	✓	✓	✓	✓
ROHS Recast (RoHS 2)	✓	✓	✓	✓
BIS ss per IS 13252:2010	✓	✓	✓	✓
Vibration (sinusoidal) as per IS-9000-Part 7	✓	✓	✓	✓
Shock as per IS-9000-part-7	✓	✓	✓	✓
Degree of Protection (IP 65) as per IS/IEC 60529:2001	✓	✗	✗	✓

Disposal of Product after End-Of-Life

WEEE Directive 2002/96/EC

The product refered is covered by the waste Electrical and Electronic Equipment (WEEE) directive and must be disposed of in a responsible manner.

At the end of product life cycle; batteries, soldered boards, metal components and plastic components must be disposed through recyclers.

If you are unable to dispose-off the products or unable to locate e-waste recyclers, you may return the products to Matrix Return Material Authorization (RMA) department.

For more, visit : https://www.matrixcomsec.com/e-waste-policy.html



SECURITY SOLUTIONS

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V.2, March , 2021

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