# **COBAN** Card Reader Installation

#### Set up in BO Client

- 1. Open "BO Client"
- 2. Navigate to "Setup" menu on the menu bar and click "In-car Unit Setup".

•		In-Ca	r Unit Set Up				6
m700/Test EDGEunit		System	<u>۱</u>	/ideo a	and Audio		Peripheral Devices
M700MB/Mark Baers M700 setup MID/EDGEMC Dual Unit 9399 MDF/DGEMC Dual Unit MC1 MDF/Marks Baers Edge Template Unit 777 Unit X01/EGDE MC Single Camera Unit M1 TX-02/WDT - Dual camera Unit VMDT TX-03/WDT Front and Rear TX-03/WDT Front and Rear TX-03/WDT Front and Rear TX-03/Edge with Itegration	DVD/Radar/ Radar type: GPS type: License read Speed to trig GPS: 1 Radar: 1	YGPS/License/LPR Undefined ♦ 1 Standard ♦ 1 ler type: 1 1 gger recording (0: Never) 100 MPH 100 MPH	Port: COM 0 Port: COM 8 Port: COM 10		GPS Settings Send GPS coord Synchronize sys GPS log interval: Show GPS spee Automatic LPR	tinates back to tem time with GI 30 seconds   d on video None	control center PS (0: don't log) GPS on laptop
Tx12/M700 Titan ALPR      Tx12/M700 Titan ALPR      Unit Demo      Unit Domo      Tx02/T0PCAM G2 IX11 with IR Rea      Tv02/T0PCAM G2 IX11 with IR Rea	Short Desc I LB I BRK I Ign I CRSH I Siren S	Long Description Lightbar Brake Ignition Crash Sensor Siren	Action Type ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF		Cam 2         Auto Zoon           Image: Com 2         Image: Com 2           Image: Com 2         Image: Com 2	n Delay Color 5 0 0 0 0 0 0 0 0	Features to be disabled on "More Functions" screen: Pre-event playback Sync GPS time Turn off record indicator Switch to black and white mode
Online 2333     Online 233     Online 23     Onlin	Short descrip Long descrip	ption LB stion Lightbar	Action ON/OFF	<b>•</b>	Delay 5 Seco Camera to trigger:	onds 🛛 A 🗹 First	Auto zoom Second
Patrol Unit Configuration       Unit ID:       Base station:       Patrol ID:       This unit ca       Streaming IP mask:       Description:       New       Save       Deactive	\$CBSDVMS1 n upload to all	stations Edit Te	w All Units Ne	w Temp ete Tem	plate Save	Template	Exit

3. Select the template to be updated and click on the "Peripheral Devices" tab.

#### Peripheral Devices

4. Change the "License reader type" to 1 and set the Port COM to a desired COM port value. NOTE: This will be explained in the "In-car setup" of this guide.



5. Click "Save Template" to save the changes.



6. Re-checkout the drive or click on "Upload and shut down" or "Upload and stay on" in Mobile Recorder for the unit to take effect.

# In-car Setup

- 1. Login as Administrator.
- 2. Go to "Start" and right click on "My Computer" and select "Manage".

Administrator				
MobileStart	😺 My Comp	Open		
	a	Explore		
🧷 РВС4	Control Par	Search		
	Network C	Manage		
MBC4	S NELWORK C	Map Network Drive		
	Coorob	Disconnect Network Drive		
Capture Card	search .	Show on Desktop		
	100 Run	Rename		
< Configure Utility		Dueneutiee		
	🛛 👌 🖉 Vindows 🖢	Properties		
[ On-Screen Keyboard				
CobanTest				
All Programs				
	💋 Log Off			
🏭 start 🛛 🤨 🔾				

3. The "Computer Management" window will pop up. Select "Device Manager".

L Computer Management	_ 0 🔀
🗐 File Action View Window Help	
Scomputer Management (Local) Name	
System Tools      System Tools      System Tools      Second	
Shared Folders	ations
Kocal Users and Groups	
Device Manager	
🖬 🚰 Storage	
₩ Disk Defragmenter	
Services and Applications	

4. The right panel will populate with the devices available. Select "Ports (COM & LPT)"



5. With the card reader connected, this will show you which port it is connected to; in this case, the picture above shows that the reader is connected to COM 11. Since the setting in BO client is set to COM 10, it will not work. The card reader needs to be plugged into the same port defined in BO client. This can be changed by moving the USB port to the correct port and verifying in "Device Manager" or could be changed by right-clicking the card reader, selecting properties, Port Settings tab, "Advanced" and changing the COM Port Number. This will be further described in the "Changing COM Port Settings" section. The other way is to change the port number in BO Client. Keep in mind that if multiple vehicles are under the same template, all the cars should utilize the same USB port and setting in BO Client.

6. After verifying that the card reader is connected to the same port number defined in BO Client, start Mobile Recorder and swipe a driver's license card while recording to verify that the card reader is working.

# **Changing COM Port Settings**

1. Right click the device under Ports (COM & LPT) and select "Properties".



2. The port properties window will pop-up. Select "Port Settings" and then click on the "Advanced..." button.

rolific USB-to-Serial Comm Port (CON	(11) Properties	?
General Port Settings Driver Details		
Bits per second:	9600	~
Data bits:	8	~
Parity:	None	~
Stop bits:	1	~
Flow control:	None	~
Adv	vanced Restore	Defaults
		Canad
	ОК	Cance

3. Look on the bottom of the Advanced Settings window and changed the COM Port Number Setting to the correct setting.

Advanced Settings for COM11		? 🔀
<ul> <li>✓ Use FIFO buffers (requires 16550 compatible UART)</li> <li>Select lower settings to correct connection problems.</li> <li>Select higher settings for faster performance.</li> <li>Receive Buffer: Low (1)</li> <li>Transmit Buffer: Low (1)</li> </ul>	Tigh (14) (14) High (16) (16)	OK Cancel Defaults
COM Port Number: COM11 COM11 COM12 (in use) COM13 COM14 COM15		

4. Click "OK" to save changes.

NOTE: This method is not recommended because the COM port number would be different than other units under the same template.

## **Troubleshooting**

### Updating the drivers

1. This step is usually done whenever there is a windows warning on the device in the list and will display a symbol as a

yellow exclamation point.

2. Right click the device to be modified and select "Update Driver".



3. The "Hardware Update Wizard" window will appear. Select "Install from a list or specific location (Advanced)" and select "Next".



4. Select "Don't Search. I will choose the driver to install." Click "Next".



5. Double-click on the card reader, in this case, it is "Prolific USB-to-Serial Comm Port". Click "Next".

Hardwa	re Update Wizard		
Sele	ct the device driver you want to in	stall for this hardware.	E Contraction of the contraction
<b>₽</b> Sho	Select the manufacturer and model of y have a disk that contains the driver you w compatible hardware	our hardware device and the want to install, click Have Di	n click Next. If you isk.
Mada	· · · · · · · · · · · · · · · · · · ·		
	olific USB-to-Serial Comm Port		
🖼 Th	is driver is digitally signed		Have Disk
<u>Te</u>	Ill me why driver signing is important		Have Disk
		< Back Next >	Cancel

### 6. Click "Finish" to complete the steps.

Hardware Update Wizard							
	Completing the Hardware Update Wizard						
	The wizard has finished installing the software for:						
	Prolific USB-to-Serial Comm Port						
	Click Finish to close the wizard.						
	< Back Finish Cancel						

7. Verify that the device now does not have a warning to the left of it. Otherwise, repeat the steps or right-click the device and uninstall the driver and re-plug in the card reader for windows to look for it.

Prolific USB-to-Serial Comm Port (COM11)

Testing the card reader with Hyper Terminal

NOTE: This only works for EDGE.

1. Open "Hyper Terminal" from Start  $\rightarrow$  All Programs  $\rightarrow$  Accessories  $\rightarrow$  Communications  $\rightarrow$  Hyper Terminal



2. Give the new connection any name desired. Select "OK"

🧏 New Connection - HyperTerminal	- <b>-</b> ×
File Edit View Call Transfer Help	
Connection Description ? ×	10
Image: New Connection         Enter a name and choose an icon for the connection:         Name:         Icon:         Icon:         Image: Icon: </th <th></th>	
Disconnected Auto detect Auto detect SCROLL CAPS NUM Capture Print echo	

3. Select the correct COM port when prompted. This COM port should match the one seen in the "Device Manager".

Connect To	? 🔀
🧞 Test	
Enter details for	the phone number that you want to dial:
<u>C</u> ountry/region:	United States (1)
Ar <u>e</u> a code:	111
Phone number:	
Co <u>n</u> nect using:	СОМ11 🗸
	OK Cancel

4. Change the "Bits per second" to 9600 and click "OK".

OM11	Properties			? 👌
Port S	ettings			
	Bits per second:	9600		~
	Data bits:	8		*
	Parity:	None		¥
	Stop bits:	1		~
	Flow control:	Hardware		*
			Restore	Defaults
			Cancel	Apply

5. While in the Hyper Terminal window, Swipe a card to verify that the card reader is working.

🍓 test - HyperTermina								_ 🗆 🔀
File Edit View Call T	ransfer Help							
D 🗃 🍵 🔏 🗈 i	<mark>6</mark> 😭							
Connected 0:00:38	Auto detect	Auto detect	SCROLL	CAPS	NUM	Capture	Print echo	

6. If swiping a driver's license card populates the window above, the card reader is installed and configured correctly. If not, check to see if the COM port is selected correctly in step 3. This COM port should match the COM port number in device manager. If the card reader works in Hyper Terminal and not in Mobile Recorder, make sure the setting is correct in BO client in-car setup and that either the drive has been re-checked out or "Upload and shutdown" or "Upload and stay on" has been selected.

# Verification

All the COM ports should be the same in order for the card reader to work.

•	In-Car Unit S	Set Up	•	Computer Management		
m200/Test EDGEunit	System	Video and Audio	Peripheral Devices			
HTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	DVD/Radar/GPS/License/LPR			File Action View Mindow H	lein	
🖳 🕺 🕺 Unit 9999	Badar tune: U. L.C D Port:	GPS Settings				
MCD/EDGEMC Dual	Undenned	Send GPS coordinates	back to control center			
Unit MUT	GPS type: Standard 😝 Port:	COM 8	31.000			
E MDB/Marks baers Euge Femplate	License reader tupe: + Port:	Synchronize system time	e with GPS	Commuter Menoment (Level)		
TX-01/EGDE MC Single Camera	License redder gpc.	GPS log interval: 30 s	econds (0: don't log)	Computer Management (Local)	Controuzzorz4348	<u>^</u>
1 Unit M1	Speed to trigger recording (0: Never)			🖃 🌺 System Tools	🖭 😼 Computer	
👬 TX-02/VMDT - Dual camera	GPS: 100 MPH	Show GPS speed on vic	leo GPS on laptop	Event Viewer	∓ 🥯 Disk drives	
Unit 11	UI 3. 100 MIT			Channel Falstern	🖂 🔂 Disulau adautaus	
TX 02404DT Event and Rear	Badar: 100 MPH	Automatic LPR		Snared Folders	🛨 🥶 Display adapters	
E Intervention and Hear		LPB intregration: Mono	Dual Chappel	🗄 🔣 Local Users and Groups	主 🔜 Human Interface Devices	
FI		None		Performance Logs and Alert	🕂 🚍 IDE ATA/ATAPI controllers	
1 Unit 3333				Device Mensure	🖂 🦢 Kaukaanda	
E TX-12/M700 Titan ALPR	Short Desc Long Description Actin	on Tune Cam 1 Cam 2 Auto Zoom Delau	Color Features to be disabled	Device Manager	+ www.eyboards	
Unit Demo	LB Lighthar ON/		on "More Functions"	🖃 🛅 Storage		
E HI IXU2/TUPLAM G21X11 with IH Rea			screen:	🐨 🕰 Removable Storage	🕂 🗐 Monitors	
Unit Topcare			Pre-event playback	Dials Defermentary		
E TX03/TC with IR MDT	BHK Brake UN7		Sync GPS time	Disk Derrägmenter	Wulthunction adapters	1
1 Unit 2222	Ign Ignition ON/	'OFF 🗆 🗆 0	Turn off record	🛛 👸 Disk Management	🛨 🕮 Network adapters	
Unit Lambo	CRSH Crash Sensor ON/	'OFF 🗖 🗖 0	- indicator	Services and Applications	🗄 🖳 🖳 Ports (COM & LPT)	
E	Siren Siren ON/	'OFF 🗆 🗖 🗖 0	Switch to black			
Unit EUI			- and white mode		Communications Port (COWT)	
E TX05/T0PCAM with Mneo4					Zero Communications Port (COM2)	
1111	Short description LB Action	ON/OFF 🗧 Delay 5 Seconds	Auto zoom		PCI Communications Port (COM3)	
	Long description Lightbar	Camera to trigger: 🗹 F	irst Second		BCI Communications Part (COM4)	
4 ( ) ·					PCI Communications Port (COW4)	
Patrol Unit Configuration	Edit Tamplat				PCI Communications Port (COM5)	
Unit ID: Base stati	ion: CRSDVMS1	•			PCI Communications Port (COM6)	
Detrol UD:	action of the second se				Durliffe UCD to Control Course Dark (COM40)	
Patrol ID:	nit can upload to all stations Show All L	Jnits New Template Save Template			y Prolific USB-to-Serial Comm Port (COWTO)	
Streaming IP mask:			Exit		🛨 🛲 Processors	
Description:					Sound video and game controllers	20
		Delete Template Cancel			T X IIII	
New Save D	eactivate Move		_1			
1.2		D D COM				
License reader	r type: 1	Port: LUM	10	T Duelide LICD to Com	Colores Development of	
				🚽 🖉 Prolific USB-to-Ser	iai Comm Port (COM10)	
				u	· · ·	