

This quick guide provides instructions on how to use a Google Chromecast<sup>™</sup> Ethernet adaptor to provide a reliable, wired interface for customers needing to charge, connect and control OPX-BOXe OTDR via Fiberizer<sup>™</sup> Desktop PC or web browser.



## **General Setup Instructions**

- 1. Plug the USB Type A (f) to micro-USB B (m) cable and Ethernet cable into the Chromecast Ethernet adaptor.
- 2. Connect the micro-USB B (m) to the OPX-BOXe and an Ethernet cable into the Ethernet hub.
- 3. Connect an additional Ethernet cable between the hub and laptop. Make sure the Ethernet hub is plugged in/active.
- 4. Once connected, launch the OPX-BOXe Tool App. Select the OPX-BOXe that corresponds to the serial number on the device (see *Figure 1*).

<b>P</b>		★ 60% ii 2:08 PM
OPX-B	OXe devices available	α :
-76 dBm	OPX-BOXe #1197719 18:BB:26:F4:A8:D5 BONDED	
-43 dBm	OPX-BOXe #0975417 A0:2C:36:9C:A6:B5 BONDED	

#### Figure 1: Bluetooth Connectivity Status Information

# Web Browser Control

1. Select Change Wi-Fi mode in the OPX-BOXe Tool home screen (*Figure 2*) and re-configure the default Wi-Fi AP/static mode (factory default IP 192.168.1.1) to Wi-Fi Protected Access Mode (see *Figure 3*).

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#### Figure 2: OPX-BOXe Tool Home Screen

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← Change Wi-Fi mode	
Select mode:	
Access point	
Wi-Fi Protected Access	
Connected to NETGEAR-Guest(10.0.0.18)	
NighthawkX8_2.4G	
VeEX Office	
VeEX Test Lab	
VeEX Mobile	
VeEX Office	
OPX-BOXe #1197719	
NETGEAR94	
NETGEAR-Guest	

#### Figure 3: OPX-BOXe Wi-Fi Protected Mode Wi-Fi List/Current Connection

2. Check Current device status and confirm the Ethernet Link is up and verify the new assigned IP address (see Figure 4).

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← Current device status	
PAN not connected	
Auto power off timeout never	
Ethernet link status Up	
IP address 192.168.0.218	
Wi-Fi Mode Client	
Name NETGEAR-Guest	
IP address 10.0.0.18	



3. Enter the IP address into the PC browser - the OPX-BOXe should connect and be ready for use (see Figure 5 & 6).

Monitoring 👻 li	ntegration 👻 RTU 💌	OTAU ▼ OTDR ▼	OPX-BOXe 🔻		(Upda	te RTU tim	e) :	Monitoring	disabled		EX	•
· · · · · · · · · · · · · · · · · · ·	About RTU											
	Platform name				OPX-BOXe							
	Platform serial number	r			TR6A00QB310	0173						
	Platform firmware vers	sion			20190611_23	2335						
	RTU core software ver	sion			1.26.0+r4900.	b28						
	Details								>			
	Battery	88%, discharging										
Return to main pag	e a a a a a a a a a a a a a a a a a a a		20 30	40 50	60	70	₹ Type	Distance Begin of liber	Loss	Sefectance Slope	Cumulioss 🔣	/
OTDR OPX-BOXe #0859417	~	-20 K				a	• 1	0.00000 km Fiber section (1.01058 km)	0.219 dB	-50.803 dB	0.000 dB A	
Start test		-25					ک ر ب	Splice gain 1.01050 km Liber section (28.22775 km)	-0.010 d5	0.237 dB/km	-0.619 d5	
Wavelengths (nm) SM1650		-30					22	Splice loss 26.23833 km Fiber section	3.138 dB		8,198 dB	
Test Mode:	Manual ~					•	× †	(50.56267 km) Undetermined 26.80100 km	11.275 d5 end	0.223 dB/km	19.774 dB L5 19.774 dB B	
PON Type:	Not a PON	-35			~	~~~						
Distance (km):	80 ~	-40				T						
Pulse width (ns):	1000 ~											
Time (m:s):	01:00 ~	-45										
Resolution (m):	AUTO ~											
Optimal Dead Zo Check Connection	one on Quality	-50										
Other S	Settings •	-55	l			T,	>>	Events	Properties	Analysi	s Summa	rγ

*Figure 5 and 6*: *VeEX's Web Browser OPX-BOXe Controls* 



### Fiberizer<sup>™</sup> Desktop Remote Control

- 1. On device status, the user should be able to view the Ethernet IP address marked in the row containing **Ethernet** link status, IP address.
- 2. Launch Fiberizer Desktop software on a PC and click the device arrow checkbox on the Connect button. Change Interface to TCP and enter the IP address given by OPX-BOXe Device Status Screen. Click on the Measurement tab.
- 3. Select OK and press the Connect menu button. A success message (*Figure 8*) should appear; otherwise a disconnect X occurs, which indicates the IP address is busy (use OPX-BOXe Tools Change Ethernet IP) or the setup is incorrect.
- 4. On the OPX-BOXe home screen (*Figure 1*), select Change Ethernet IP menu option. The user should see a greyed out DHCP IP address. Select Static IP to edit the IP address, subnet mask, and gateway address. The OPX-BOXe Tool auto-fills the current ethernet IP address (if external setup is correct) that is to be used with Fiberizer Desktop. The user has the option to change to another available Ethernet IP address if needed.
- 5. The application is ready to use.

	Fiberizer Desktop – O ×
Event markers 2 markers ORL Analysis Trace Compare View	Measurement Settings Batch processing Hardware
Image: Second	↓         1, tmc 0 00000 ↓         Trace refresh time 0 0 ↓         Unit.         SM1650 ↓           ↓         L2, tmc 0 00000 ↓         □         Optimul dead zone         BC, db.         -00.0         0           ↓         ut, m 2.8         ↓         □         Dtwo less power         BL.         1.4600 ↓         0           Section         Flaps         Other         Other         Other         0         0
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Figure 7: Fiberizer Desktop Connect Device's OTDR Interface Setup



Figure 8: Connect Success Message





*Figure 9*: Successful Fiber Trace Measured with OPX-BOXe and Chromecast<sup>™</sup> Ethernet Adaptor Integration

## About VeEX

VeEX Inc., a customer-oriented communications test and measurement company, develops innovative test and monitoring solutions for next generation telecommunication networks and services. With a blend of advanced technologies and vast technical expertise, VeEX products address all stages of network deployment, maintenance, field service turn-up, and integrate service verification features across copper, fiber optics, CATV/DOCSIS, mobile 4G/5G backhaul and fronthaul, next generation transport network, Fibre Channel, carrier & metro Ethernet technologies, WLAN and synchronization.

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