

April 2021

Comcast Full Duplex DOCSIS trial pumps out 4-Gig symmetrical speeds!



Offering proof that Full Duplex DOCSIS (FDX) and DOCSIS 4.0 technologies have taken a big step closer to prime time, Comcast said recent lab trials powered by a new system-on-chip (SoC) from Broadcom delivered symmetrical speeds of more than 4 Gbit/s.

That technical achievement also puts Comcast, and possibly other cable operators, a step closer to DOCSIS 4.0, a new CableLabs specification that will be capable of delivering up to 10 Gbit/s downstream and about 6 Gbit/s in the upstream.

DOCSIS 4.0 also ties into "10G," an industry-led set of tools focused on supporting symmetrical 10-Gig speeds on HFC, FTTP and wireless access networks along with advanced security and low-latency capabilities.

Comcast's lab trial, conducted in Denver, is an early proof point that FDX has emerged as a viable option for DOCSIS 4.0. FDX, a technology with roots going back to DOCSIS 3.1, allows cable operators to run both upstream and downstream traffic simultaneously in the same block of spectrum using echo cancellation, a technique that mitigates interference when the network makes use of the same spectrum at the same time for both upstream and downstream transmissions. FDX also paves the way for multiple sub-bands (one OFDM downstream channel and one or two upstream OFDMA channels) to occupy an "FDX band" that resides at 108MHz-684MHz.

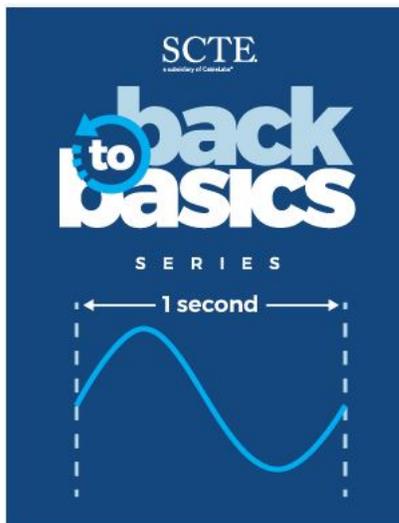
[Read Full Article Here](#)

**How Does 10G Work?
Click the Image below to find out!**

10G CONVERGED OPTICAL NETWORK

ENABLING DISTRIBUTED ACCESS
AND SUPPORTING SERVICE CONVERGENCE

Back To Basics!

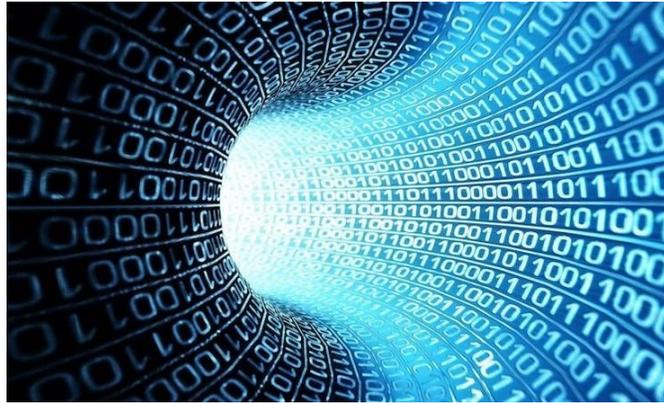


Frequency is the number of times — typically per second — that a repetitive event happens. For an electromagnetic wave, frequency is the wave's rate of oscillation. Commonly measured or stated in units of hertz (Hz), which is the number of cycles per second

[Learn More →](#)

Local Chapter News

Great Lakes Chapter Optical Transport High Level Overview!



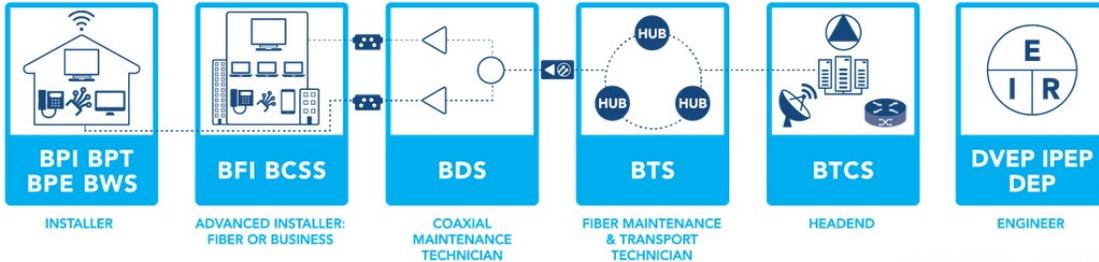
Join the Great Lakes Chapter on **April 28th** as we present a virtual training session which will assist in preparation for the SCTE-ISBE BFI & BTS certifications.

Click here for the webinar [Registration Link](#)

SCTE·ISBE CERTIFICATIONS

www.scte.org/certification

SCTE·ISBE HAS INDUSTRY CERTIFICATIONS FOR ALL AREAS OF THE CABLE NETWORK



SCTE·ISBE.

SCTE-ISBE Great Lakes Chapter Certification

- We are still accepting certification requests.
- Please email scteglc@outlook.com with "Certification" in the subject.
- A Great Lakes Board Member will contact you and schedule testing
 1. Testing will be proctored in person.
 2. Social distancing will be observed & PPE will be worn during testing.

| [SCTE-ISBE Great Lakes Chapter](#)

