



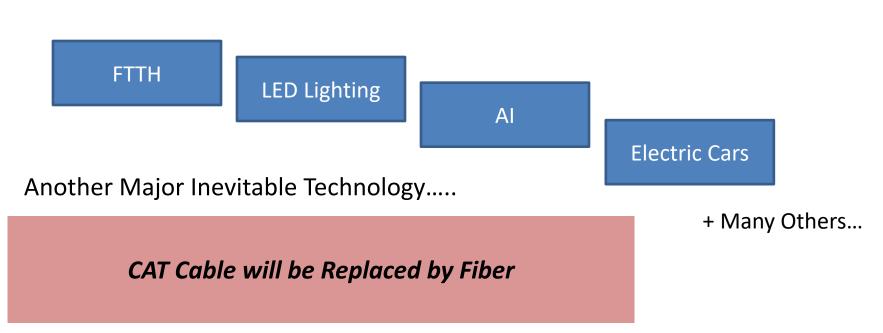
The <u>Truly</u> All Fiber Enterprise (AFE)

The Future is **Power** with **Data**

AFE - Pulling the Future Forward

Inevitable Technologies





Why? Any Interconnection over 3 ft and over 10G will need fiber

10G interconnects are coming. Remote powering is needed. Low Latency Networks are a must.

How can we pull this inevitable future forward?

Why Fiber Now?



FIBER INFRASTRUCTURE

- In terms of cost and installation, installing fiber is comparable to installing CAT cable
 - Fiber an be connectorized in under 1 minute (https://www.youtube.com/watch?v=I1Am-uNrFts)
 - New fiber technologies provide reliability and network stability (cleerline.com)
 - New fiber technologies can be installed and operated reliably in any enterprise environment

FIBER DATA

- 1G Conversion Devices are < \$1, 10G<\$5
 - Futureproofed to over 40G
- New fiber Topologies allow Home Run,
 Fiber Rich Topologies with zero added
 latency
 - Ultra secure links with No EMI, RFI
 - Create Optimal Hybrid Cloud/ User
 Experience

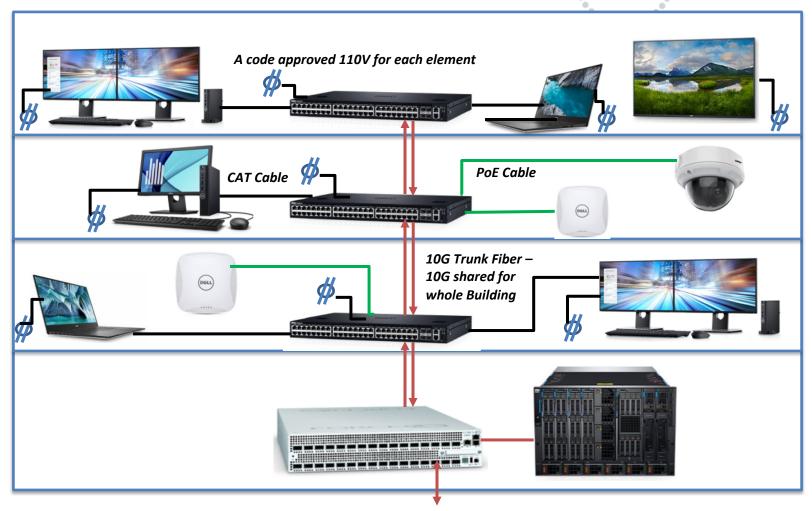
FIBER POWER

- 100W PoE++HP spec allows for the Elimination of local Power Conversion
- Hybrid Fiber/Copper creates long run, low loss powering
 - AFE Technology provides bonded channels to over 500W
- UL low voltage allows for powering to be run without expensive installation

Radius Universal is an LLC holding the IP, Technology, and Products for these two components

Existing Networks

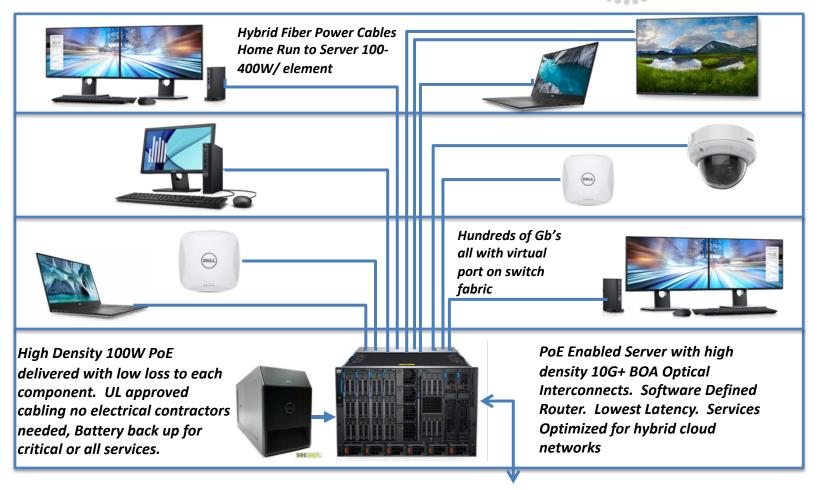




High Latency Networks, excess power conversion, commodified products

AFE Networks





Building for a Cloud Driven World with a Future Proofed Technology

The AFE is NOW





AFE Product Roadmap

Radius UNIVERSAL®

AFE 1G and 10G 100W Reference Design for Embedded Designs





AFE Enabled TV's and Monitors





AFE 3030 1GE to USB with 100W USB Power Delivery



AFE 3030 10GE to USB with 100W USB Power Delivery



Fiber to USB Micro Dongle

AFE Enabled Servers



AFE 2020 and 4040 200W Ethernet And Workspace 2 monitor Support



Upgrade to 10G, Hybrid Connector



10G-25G, 200W Integrated/ Laptop
Docking Station/ TC / Pico Computer with
3+ Monitor Support



AFE 1010 1200W and 2400W 24x Power distribution Unit

2020

Add Home Plug connectivity For Bldg and Lighting Control

2021

Add Battery Backup for Critical Service Powering

2022

IP Profile



- Basic Architecture, Universal Client
- Low Cost Hybrid Cabling
- Connector less Client Termination
- Hybrid Connector
- Specific Device Powering
- Network Powered USB type C
- Unified Power and Data Architectures

- US Patent # 9,882,656 B2 Issued Jan. 30, 2018
- US Patent # 10,014,958 B2 Issued Jul. 03, 2018
- US Patent # 10,088,635 B2 Issued Oct. 02, 2018
- US Patent # 10,139,569 B2 Issued Nov. 27, 2018
- US Patent # 10,151,886 B2 Issued Dec. 11,2018
- US Patent # 10,171,180 B2 Issued Jan. 01, 2019
- US Patent # 10,277,330 B2 Issued Apr. 30, 2019
- US Patent # 10,379,295 B2 Issued August 13, 2019
- US Patent # 10,663,672 issued May 26, 2020
- US Patent # 10,855,381 Issued Dec 15, 2020
- EU Patent # 3 047 492 Issued 2019
- Six other Patent applications pending