

## WTVA TELEVISION STATION, TUPELO, MISSISSIPPI

*Extending 42.4 miles of link distance with fiber-like reliability for a TV station's STL (Studio-to-Tower Link) application.*

**Background:** in the spring of 2020, WTVA, a radio station based in Tupelo, Mississippi, was in serious need of replacing two existing 7GHz STL (Studio to Tower Link). After decades in service these links were fast becoming unreliable and started to hamper their operation.

**Decision:** WTVA chose to replace these two 7GHz STL links with Cielo's SkyLink CG2X 6GHz long-distance links, which have the following features to overcome challenges associated with 40+ mile link.

- High-power ODUs for enhanced RF link budget
- 6 and 8FT antennas for additional antenna gain
- Space diversity to minimize the effect of multipath

Cielo engineered the links at 250Mbps of data rate with 99.999% reliability figure.



"The link has maintained a steady lock since August 2020. We have had no errors since switching to Cielo links. Cielo links have performed as advertised."

**Gary Savage, Director of Operations and Technology, WTVA**

**Result:** Installation was completed in August, 2020 and the link has been operational with no errors for six months. One added benefit is that a remote transmitter site now has VOIP call capability which has immensely helped with performing maintenance work at the site.