

Tracer 2210/3202 Description

This product provides microwave full-duplex transmission of an Nx64 ($N = 1 \dots 24$) data stream. The TRACER 2210 accepts a V.35 clock and data input and formats the data signal into a T1 format. The T1 signal is transformer-coupled onto twisted pair wire (22 – 24 AWG) along with a center-tapped 24 to 60 VDC span power signal, and transported up to a mast-mounted radio unit enclosed in a 1/4-size environmental housing. The span power is used to power the radio electronics, while the T1-formatted data signal is direct-sequence spread and used to modulate a 5.8 GHz RF carrier. The RF signal is presented at the N-type connector of the mast-mount TRACER 3202, and is connected with a 50 ohm coaxial cable to an antenna for microwave transmission in the 5.8 GHz ISM band to an identical 2210/3202 pair at the “far end” of the radio link, where the inverse signal operations are performed, resulting in recovered Nx64 clock and data signals output at the far end 2210 V.35 port.