

# AT 2502 Variable Power Fibre Transmitter

The AT-2502 Variable Power Fibre Transmitter Module for CompactRIO has been developed to test digital systems that use fibre communication. Applications include:

- Testing and verification of custom fibre networks
- Communication with other cRIO fibre modules
- Isolation of cRIO chassis at different potentials



## Typical Industries

- Military aircraft/vehicles
- Scientific research labs
- Large physics facilities
- Test and measurement labs
- Medical physics installations

## AT 2502 Specifications

### Inputs

- TTL
- Fibre - 820 nm
- cRIO FPGA (via DIO)

### Outputs

- TTL
- Fibre - 820 nm
- cRIO FPGA (via DIO)

### Fibre Transmitter

- > 18 dB range
- Typically -6.4 dBm max into 200  $\mu$ m fibre
- Typically -14 dBm max into OM2 fibre (50  $\mu$ m)

### Fibre Receiver

- Sensitivity better than -30 dBm

### Maximum Symbol Rate

- 20 MBd TTL
- 10 MBd fibre

### Electrical connectors

- SMA

### Fibre connectors

- ST

### Programming

- LabVIEW libraries for FPGA containing both high and low-level functions

## ANGARA Technology

ANGARA Technology produces high performance control and automation systems for a variety of scientific and engineering industries.

The company was created in 2019 by former CERN employees with more than 50 years of combined engineering and scientific experience.

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