

LiNbO₃ Modulator

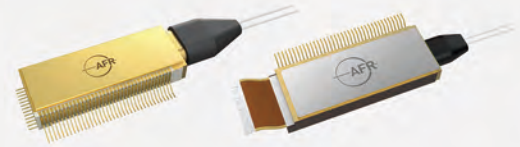


Thin-Film

C+L-Band 96/130 GBaud CDM

- Insertion loss < 8 dB
- Compatible with OIF-HB-CDM

For Long-Haul, Metro and DCI



C-Band 70 GHz Intensity Modulator

- Low Drive Voltage
- Optical Extinction Ratio ≥ 25 dB

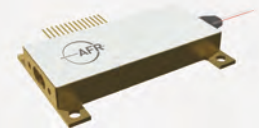
For Digital/Analog Transmission



C-Band 40 GHz TFLN IQ Modulator

- Bandwidth > 40 GHz
- Excellent Linearity

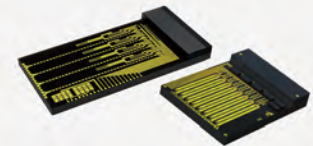
For OFDM, QPSK, QAM Coding and FMCW LiDAR



100/200/400 Gbps/Lane O-Band Modulator Chip

- Low Drive Voltage
- Low Optical Insertion Loss

For QSFP-DD/OSFP/OSFP-XD Type Transceiver Modules



Bulk

20/40 GHz Intensity Modulator

- Electro-Optic Bandwidth > 32 GHz
- Low Optical Insertion Loss & Low Drive Voltage
- Extended Operating Temperature at - 55 to + 85 °C

For Digital/Analog Transmission



40 GHz IQ Modulator

- Electro-Optic Bandwidth > 30 GHz
- Optical Insertion Loss: 5 dB (typ.)
- Optical Extinction Ratio ≥ 24 dB

For Satellite Communication and LiDAR Applications



10 GHz Zero-Chirp Modulator

- Electro-Optic Bandwidth > 12.5 GHz
- Optical Insertion Loss < 4.5 dB
- RF V _{π} Voltage: 5 V (typ. @ 1 kHz)

For High Frequency RF Signal Over Fiber Optic Links



Phase Modulator

- Low Optical Insertion Loss @ 1060 nm Band or C-Band
- Frequency Response up to 10 GHz
- Extended Operating Temperature at - 55 to + 85 °C

For Ultra-Fast High Power Lasers



AFR Company Profile

Founded in 2000 and publicly listed in China in 2017, Advanced Fiber Resources (AFR) has expanded to over 6,000 employees, including 800 engineers and technicians. AFR designs and manufactures fiber optic components and lithium niobate modulators across 238,000 m² of global facilities, including AFR Zhuhai, AFR Jinding, AFR Wuhan, AFR Shenzhen, and B&A in China, AFR Milan in Italy, and AFR Thailand. Our products are widely applied in telecommunications, datacenters, fiber lasers, fiber sensing, autonomous driving, and biomedical equipment, and have been delivered to more than 600 customers in over 40 countries and regions worldwide.

26
Years of History

800
Engineers & Technicians

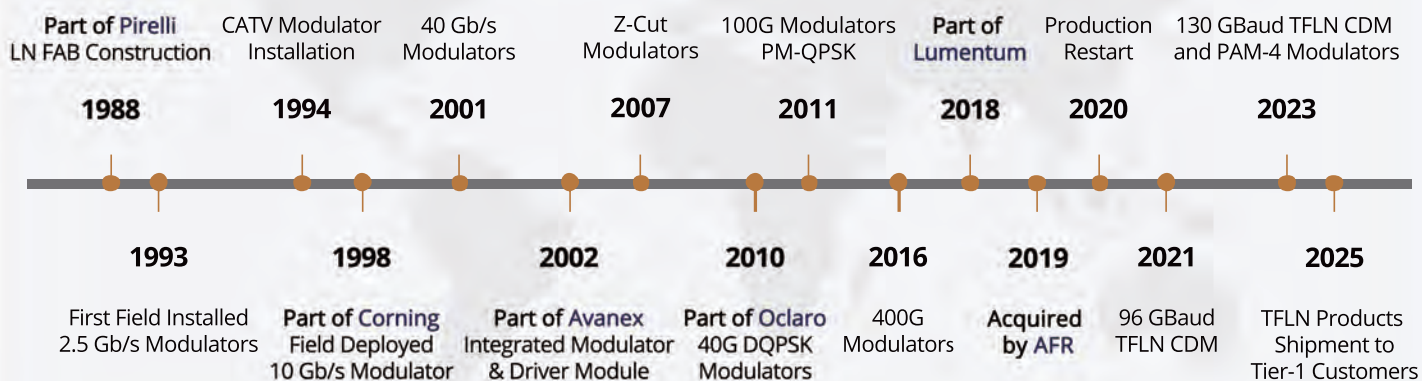
6,000
Employees

600
Customers

8
Sites (China/Italy/Thailand)

238,000
m² Facility

AFR MILAN: A world leader in LN modulators with 40+ years of history



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