AFR Wuhan Profile

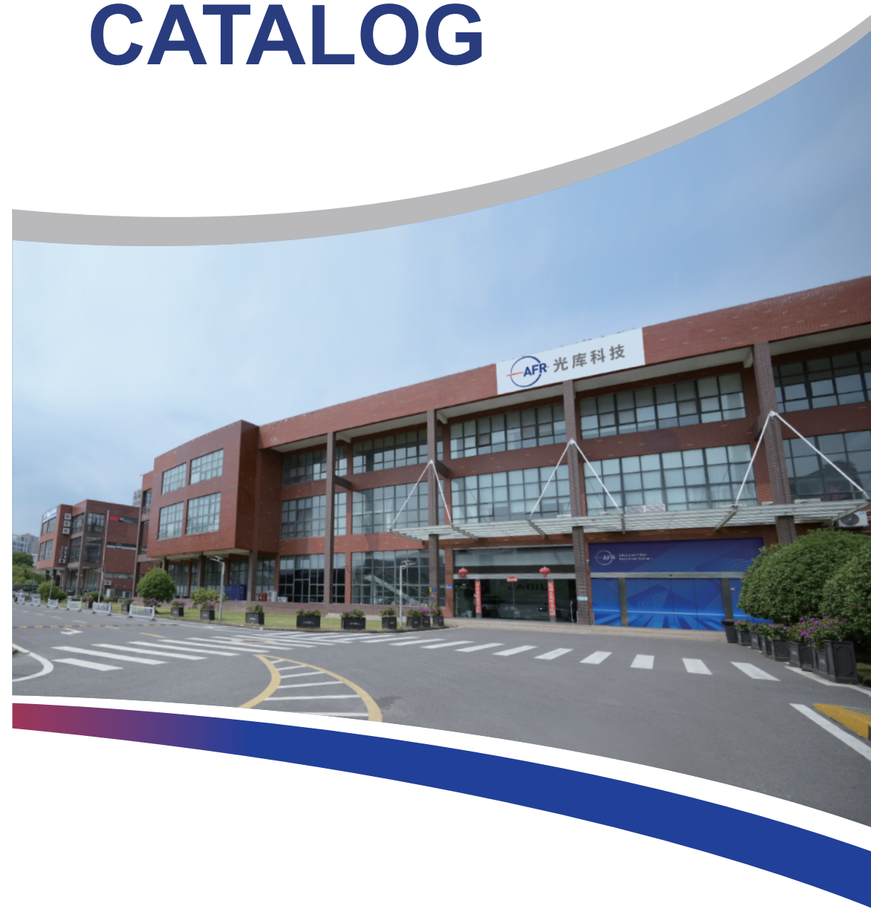
Advanced Fiber Resources Wuhan

CATALOG

Advanced Fiber Resources Wuhan (AFR Wuhan) is a leading provider of advanced optical and electronic manufacturing solutions, delivering superior quality and outstanding customer service to a global client base. Founded in Silicon Valley in 1999, with over 26 years of experience, AFR Wuhan operates 17,200 m² manufacturing facilities and 2,000 m² of Class 10,000 cleanrooms, supported by more than 300 employees, 50+ engineers, and 70+ patents.

AFR Wuhan's core strengths lie in high-end photonics packaging, complex optical fiber manufacturing, and advanced electronics assembly. Its product portfolio spans optical amplifiers, optical engines, patch panels, detachable optics for NPO & CPO, etc. With integrated capabilities in design, engineering, and large-scale production, AFR Wuhan leverages innovation, automation, and digitalized factory systems to deliver reliable, efficient, and value-driven solutions to customers worldwide.

17,000+ m² Manufacturing Space	**300+** Employees	**20+** Customers
2,000+ m² Class 10,000 Cleanroom	**50+** Engineers	**70+** Patents



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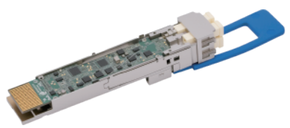
QSFP-DD EDFA

The QSFP-DD EDFA integrates full-featured erbium-doped fiber amplification into a standard, hot-swappable QSFP-DD form factor, enabling compact and high-density optical amplification for modern network architectures.

QSFP-DD EDFA

- Typical Gain: 15 dB
- DWDM Channel Count: 96 ch
- Operating Wavelength Range: 1528 - 1566 nm
- Input Power Range: - 20 to + 2 dBm
- Integrated VOA Attenuation Range: 30 dB
- Noise Figure ≤ 6.7 dB
- Gain Flatness (Peak-to-Peak) ≤ 1.5 dB



QSFP-DD Dual EDFA

- Typical Gain: 20 dB
- Supports Both BA & PA Applications with Automated Optical Safety Shutdown
- Dedicated 8-channel Sub-Band and Optimized for 1542 - 1554 nm Narrow-Band Amplification
- Gain Flatness (Peak-to-Peak) ≤ 1.0 dB

QSFP-DD Dual EDFA Pro

- Dual-Channel High-Density Design
- Typical Gain: 20 dB
- Max Output Power: + 17 dBm
- Operating Wavelength Range: 1535 - 1561 nm
- Noise Figure ≤ 6.5 dB
- Integrated VOA Attenuation Range: 30 dB
- Gain Flatness ≤ 2.0 dB @ 1535 - 1561 nm

Optical Channel Monitor (OCM)

Optical Channel Monitor (OCM) is an integrated silicon photonics module that allows the measurement of key paramet of optical channels in DWDM networks. QSFP OCM is compatible with QSFP MSA on mechanical and electrical interface.

Nano OCM

- Dimensions: 23.5 × 12.8 × 4.1 mm
- Operating Wavelength Range: 1529 - 1567 nm
- Frequency Accuracy: ± 4 GHz
- Channel Bandwidth Granularity: 6.25 GHz
- Optical Sensitivity: - 35 dBm
- Power Consumption: 2 W

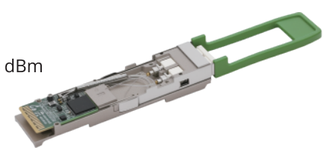
PHOTONPATH

AFR Advanced Fiber Resources Wuhan

Manufacturing partner for Nano OCM

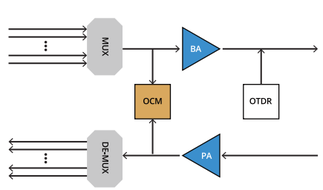
QSFP OCM

- Total Input Power Handling: Up to + 24 dBm
- Integrated Coupler: 5/95 Coupler
- Coupler Insertion Loss (IL): 1.0 dB
- Optical Input Channel Power Range: - 15 to + 15 dBm
- Frequency Accuracy: ± 4 GHz
- Channel Power Accuracy: 1.0 dB



Applications

- Parallel Channel Tracking
- Monitoring of ROADM Nodes
- High-Density Embedded Integration



Fiber Connectivity & Management Solutions

19-inch rack-mount high-density optical patch panel with a compact 1U form factor, designed for efficient fiber connectivity and management in high-density network environments.

MPO Patch Panel

- High-Density MPO Connectivity
- Double-Layer Pull-Out Drawer Design with Rear Dust Plugs
- 1RU Form Factor, Supporting Up to 48 MPO
- Dimensions: 483 × 600 × 43.6 mm
- Insertion Loss ≤ 0.3 dB
- Return Loss (APC) > 60 dB

MMC Patch Panel

- High-Density MMC Connectivity
- Double-Layer Pull-out Drawer Design with Rear Dust Plugs
- 1RU Form Factor, Supporting Up to 144 MMC
- Dimensions: 483 × 600 × 43.6 mm
- Insertion Loss ≤ 0.25 dB
- Return Loss (APC) ≥ 60 dB