Coherent planning inputs

Keep exact operating modes, line-system conditions and optical measurements together before evaluating a coherent route.

Editorial revision 2026-11-01. Planning guidance; not a released model specification, warranty, compatibility certification or installation approval.

Endpoint and mode identity

A shared rate or media code does not prove equivalent modes. Record the exact model, revision and application at both ends.

Route ID / date / endpoint identities

A and Z module / firmware / source document revision

Host framing, multiplexing and electrical lane map

Line format, payload, modulation, baud rate and FEC

Channel frequency / grid / spacing / filter passband

Line system and optical conditions

Record OSNR reference bandwidth, measurement point and receive power together. Receiver sensitivity, overload, monitor range and absolute maximum ratings are separate quantities.

Span losses / amplifier or ROADM stages / filter path

Transmit power setting and allowed range

Receive signal power and total power, per endpoint

Measured OSNR, reference bandwidth, method and location

Chromatic dispersion / PMD / mode compensation range

Amplifier gain, noise, loading and launch constraints

Power, thermal and qualification record

Power can depend on host mapping, line mode and dispersion range. Missing test conditions remain unresolved.

Host power budget and documented mode-specific draw

Module case temperature, cold start and cooling conditions

Pre/post-FEC error record with time interval and units

Interoperability / soak evidence and unresolved limits

Related reading: guide-coherent