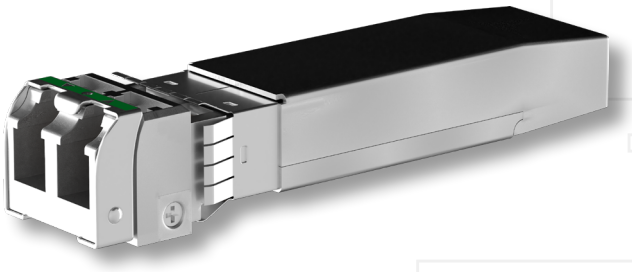
AccessWave™ Series

Seamless upgrade of access networks capacity with auto-tunable DWDM plugs

The unceasing explosion in bandwidth consumption is forcing network operators to upgrade the capacity and speed of their access networks. Our AccessWave™ Series of pluggable devices boosts the capacity of fiber-based access networks without significant changes to existing hardware equipment. With a standardized small form-factor and G.metro wavelength auto-tuning technology, our AccessWave™ Series also reduces inventory and provisioning efforts to a minimum, and integrates seamlessly with existing ADVA or third-party hardware.

Our AccessWave™ series of self-tunable DWDM pluggable devices help network operators increase access network capacity without replacing existing demarcation or aggregation devices. With a standardized small form factor pluggable (SFP) design, our AccessWave™ can be plugged directly into any device's standard SFP ports (SFP, SFP+ or SFP28, according to the line rate). What's more, with G.metro self-tuning technology, our pluggable devices substantially reduce inventory sprawl and configuration efforts. Within seconds, each remote AccessWave™ plug on a DWDM optical link can self-tune to the wavelength determined by its physical connection to the passive filter without manual intervention. Furthermore, AccessWave™ plugs also feature an optional remote diagnostics capability through the G.metro out-of-band communication channel to monitor the operation status of the remote end, regardless of the data transmission protocol. Our AccessWave™ Series of pluggables support line-side rates from 1Gbit/s up to 25Gbit/s that can be transported over DWDM optical networks. Our turn-key FSP 3000 OLS optimized for greenfield passive DWDM access networks provides users with the highest performance at the lowest cost and operational complexity. With their robust industrial-temperature design, our AccessWave™ pluggable devices are suitable for both indoor and outdoor deployment and provide a solid foundation for next-generation optical access networks.



Your benefits

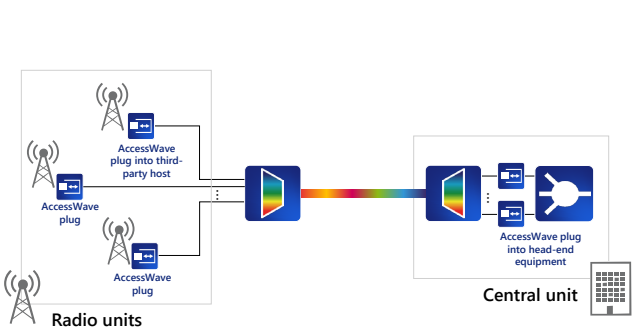
- **Host independent**
  Native transport of services up to 25Gbit/s from any device with an SFP/SFP+/SFP28 port
- **1G/10G/25G DWDM wavelengths**
  Best performance with our turn-key FSP 3000 OLS optimized for pasive DWDM access networks
- **Remote plug visibility**
  Health and status monitoring of remote plugs through G.metro out-of-band communication channel
- **C-Band tunable with G.metro auto-tuning**
  G.metro wavelength auto-tuning technology eliminates set-up time and human errors
- **I-temp operation**
  Hardened designed for outdoor operation, for example in radio units
- **Standards-compliant SFP**
  Electrically and mechanically compliant with standard SFP cages, as well as variants for the new Smart Tunable MSA

High-level specifications

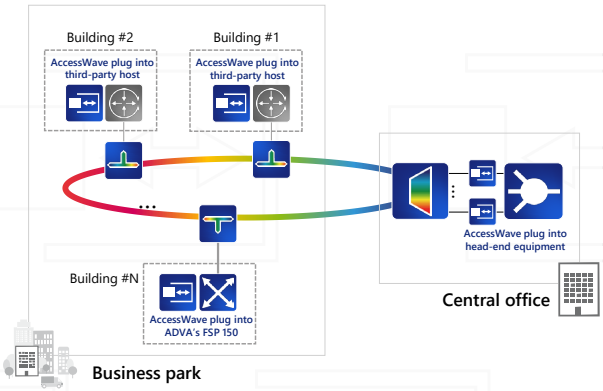
Parameter	AccessWave1™ (ER)	AccessWave10™ (ER)	AccessWave10™ (ZR)	AccessWave25™ (LR)	AccessWave25™ (ER)
Type	Duplex	Duplex	Duplex	Duplex	Duplex
Line rate	1Gbit/s	1-11Gbit/s	1-11Gbit/s	1-25.8Gbit/s	PAM4 25.8 Gbit/s 25GbE
DWDM tuning range	C-band 9-channel	C-band 9-channel	Full C-Band	Full C-Band	Full C-Band
Reach	40km	40km	80km	15km	40km
Frequency grid	100GHz	100 GHz	50/100 GHz	100 GHz	100 GHz
G.metro auto-tuning	Yes	Yes	Yes	Yes	Yes
G.metro communication channel	Yes	Yes	No	Yes	Yes
Operating temperature range	I-temp	I-temp	I-temp	I-temp	I-temp
Form-factor	SFP	SFP+	SFP+	SFP28	SFP28
Maximum power consumption	1.5W	2W	2W	3W	3W

Applications in your network

AccessWave™ enables DWDM connectivity from any device with an SFP/SFP+/SFP28 port



Mobile networks and access aggregation



Fixed broadband access and enterprise networks