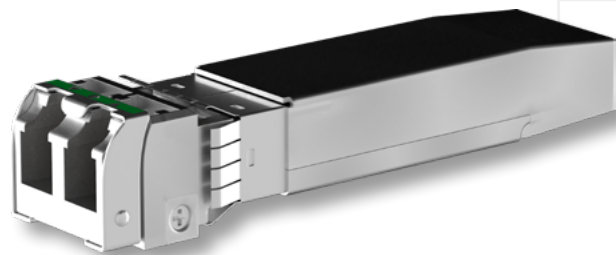


## G.metro self-tuning SFP+

### Enhanced pluggable transceivers for next-generation access networks

The unceasing explosion in bandwidth consumption is forcing network operators to make continuous changes to their access infrastructure to increase network capacity. Our G.metro self-tuning enhanced small form-factor pluggable (SFP+) devices boost the capacity of fiber-based access networks without significant changes to existing hardware equipment. What's more, with automated tuning capabilities it also reduces inventory and provisioning efforts to a minimum.

ADVA G.metro self-tunable pluggable devices enable network operators to increase network access capacity without replacing existing demarcation and aggregation devices. They are one of the key components of our G.metro turnkey solution, which also comprises a complete suite of dual- and single-fiber working filters as well as in-service network and fiber monitoring. With just a small number of components, services such as Ethernet or CPRI are transported over optical fiber by means of passive dense wavelength division multiplexing (DWDM) technology. This saves fiber resources and ensures highest data security and performance, since DWDM is protocol-agnostic and bit-rate independent. What's more, our self-tuning pluggable devices facilitate zero-touch management of the optical layer and substantially reduce inventory sprawl and operational efforts. Within seconds, each remote G.metro plug on a DWDM optical link can self-tune to the wavelength determined by its physical connection to the passive filter without manual intervention. This greatly reduces set-up time and minimizes human errors, which leads to significant operational cost savings. What's more, with their robust industrial-temperature design, our G.metro plugs are suitable for both indoor and outdoor operation. As such, our set of self-tuning pluggable devices provide a solid foundation to accommodate tomorrow's needs.



#### Your benefits

- ✓ **Up to 10Gbit/s per channel**  
Native transport of GbE, 10GbE, and CPRI/eCPRI services up to 10Gbit/s
- ✓ **Maximum reuse of deployed equipment**  
Significant capacity increase with minimum investment and maximum operational simplicity
- ✓ **Full network visibility**  
Health and status monitoring of remote plug through G.metro communication channel
- ✓ **Zero-touch management**  
Self-tuning remote-end advanced pluggable devices eliminating set-up time and human errors
- ✓ **I-temp operation**  
Robust I-temp solution, designed for outdoor operation
- ✓ **Single- and dual-fiber working DWDM**  
Support of point-to-point, linear add/drop and star topologies with both single- and dual-fiber working DWDM solutions

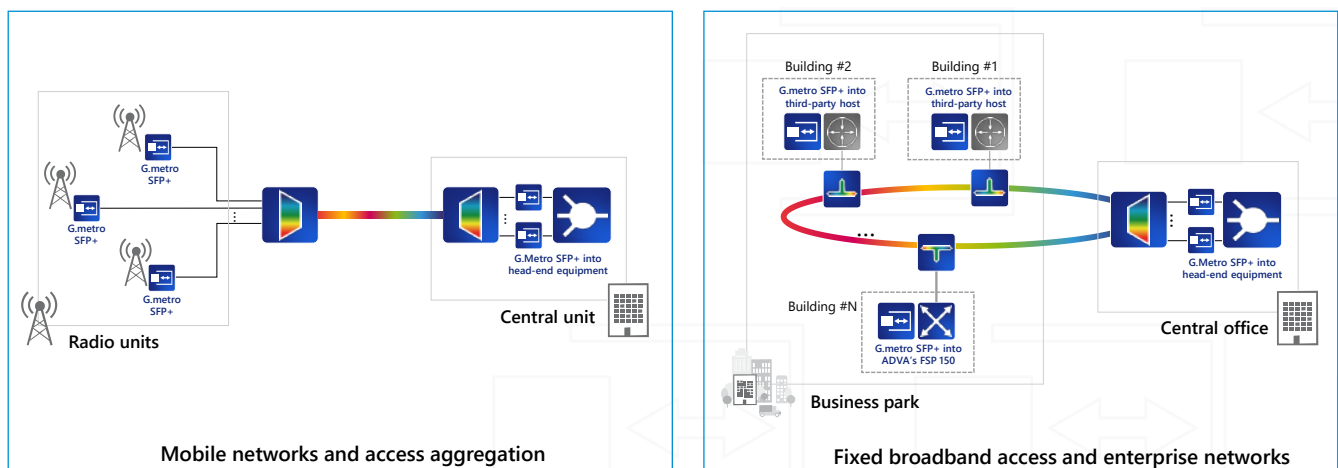
## High-level specifications

Pluggable	SFP+/11G/19xxx-19yyyL/SM/LC/T
Type	Duplex
Tuning range (channels)	8
DWDM channel coverage	48 (6 bands)
Reach (km)	40
Dispersion tolerance (ps/nm)	800
Data rate (Gbit/s)	1.25 – 11.3
Optical power budget (dB)	20
Frequency grid (GHz)	100
Power consumption typ./max. (Watt)	1.5/2
Form-factor	SFP+
Operating temperature (°C)	-20 to +85
Storage temperature (°C)	-40 to +85
Relative humidity (non-condensing) (%RH)	0 to 85
Certification and RoHS conformity	Protection class IP20; CE, FCC, NRTL, VCCI-compliant

(\* ) xxx and yyy represent the starting and ending wavelengths

## Applications in your network

Boosts access network capacity, saving fiber resources and operational cost in a wide range of metro access applications such as:



For more information please visit us at [www.adva.com](http://www.adva.com)  
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Product specifications are subject to change without notice or obligation.

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