



THE BEST LOW-COST
CAPACITY BOOST
FOR ACCESS NETWORKS
IS ALSO THE GREENEST

Infinera XTG Series

 **infinera**[®]

Need to Increase Your Access Network Capacity?

The requirement for greater capacity is forcing network operators, service providers and enterprises to think about how to increase access capacity as cost-effectively as possible.

The big challenge is how to best utilize existing fiber infrastructure, while evolving networks to support all types of applications, including fiber to the x (FTTx), storage area networks (SAN), high-security networks and various residential and enterprise offerings.

Infinera tackled all this and more when designing the XTG Series passive optical platform. Featuring both coarse wavelength-division multiplexing (CWDM) and dense wavelength-division multiplexing (DWDM) filters, the XTG Series gives you:

- A green and affordable way to increase capacity in access networks
- Easy capacity expansion, anytime, anywhere
- Support for all applications, architectures and infrastructures in one solution

In addition, you gain durability, security, a small footprint and the energy efficiency that comes with passive equipment.

A Green and Affordable Way to Lift Capacity in Access Networks

The XTG Series passive optical filters can immediately expand your fiber network to support wavelength-division multiplexing (WDM), thus adding all the capacity you need. The number of active aggregation locations can be radically reduced simply by adding passive aggregation locations and colored small form-factor pluggables (SFP) to access systems such as digital subscriber line access multiplexers (DSLAM) and multi-service access nodes (MSAN). This can significantly lower both operational costs and power consumption.



No Need for Power or Software

Being a totally passive solution, the XTG Series requires neither power nor software. Thus, it's truly an environmentally-friendly approach. However, for a full overview of the passive nodes in your access network, the Infinera Digital Network Administrator for XTG Series (DNA-M) can be used.

Cost-efficient Operations

Commissioning and installing the XTG Series is simple, which keeps training requirements low and time to revenue short. When troubleshooting is necessary, this is readily handled via special monitor ports on the filters. In addition, the compact filter housing requires only a small footprint in offices, street cabinets or underground manholes—yet another reason why the XTG Series is so economical to operate.

Expand Your Capacity, Anytime, Anywhere

The beauty of WDM is that capacity is so easy to expand, over and over again. You simply add another wavelength. If another enterprise is being added to the access network, just provide the enterprise with a wavelength of its own. Or you can provide several wavelengths depending on the capacity required. The key here is that capacity to one customer is not fixed and can easily be increased.

Choose CWDM, DWDM or Both!

The XTG Series supports up to 18 CWDM wavelengths (or channels) and up to 80 DWDM wavelengths, or a combination

of CWDM and DWDM. This provides the ultimate in future-proofing.

Taking WDM Deeper

With the XTG Series' environmentally-toughened optical filters, you can bring WDM to parts of the access network where it was previously inappropriate due to price/space/power issues. The XTM Series, which originally was designed for metro networks, can be used deeper into access networks and applications when deployed with the XTG Series. Your capacity will increase along with your business potential, as old and new customers sign up for additional bandwidth in residential and enterprise services.

The XTG Series Has a Wide Range of Passive Filters

The CO-D40EV is one example of a 40-channel filter. Combining it with CWDM filters carrying up to 12 additional wavelengths provides up to 52 wavelengths to the access network.



Application- and Architecture-agnostic for Freedom and Flexibility

The XTG Series is designed to serve as a shared infrastructure, regardless of whether the traffic flow comes from FTTx, SANs or high-security networks between banks and, for instance, private homes or enterprises. One solution fits all—now and in the future!

Likewise, in terms of architecture the XTG Series supports point-to-point, mesh, bus or ring networks as well as single fiber and fiber pair—all with full flexibility and related gains in cost-efficiency.

Rugged and Secure

With its durable design and construction, the XTG Series works in harsh conditions

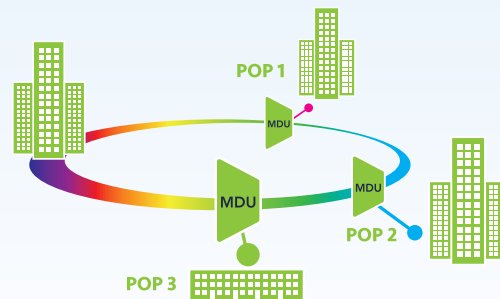
such as underground and extreme temperature installations. The XTG Series enables the moving of passive filters away from sensitive locations and to places where they are less vulnerable to accidental or deliberate fiber breakage.

This is of particular value in high-security networks carrying sensitive traffic, and where service level agreement (SLA) conflicts can lead to revenue loss. The filters allow fiber to be spliced in underground chambers instead of in optical distribution frames (ODF), in public colocation facilities or in exchange buildings, thus diminishing the risk of traffic disruptions.

The XTG Series supports all kinds of applications from one shared passive optical solution.



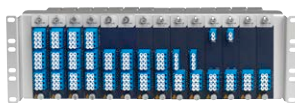
The XTG Series of optical filters placed in manhole locations. Add/drop only the wavelengths required for the particular spur—the rest of the spectrum is bypassed. This is particularly valuable in high-security applications.



XTG Series Portfolio

The list below gives details of some of the available options within the XTG Series. Please contact Infinera for further product details on these or the full range of XTG Series components.

CWDM Filters	DESCRIPTION
CO-CMDU18/1	18 ch CWDM MDU for fiber pair configurations
CO-4	8+1 ch CWDM MDU (1550), 1310 nm port
CO-5	8 ch CWDM MDU (1310)
CO-6	Optical Band Unit (1310/1550)
CO-7 and CO-9	4 ch MDU
CO-8 and CO-10	4 ch MDU with two upgrade ports
CO-11/x	OADM single sided
CO-12/x	OADM dual sided
CO-13/xy	2 ch OADM single sided
CO-14/xy	2 ch OADM dual sided
CO-SF4-TA/1470 and CO-SF4-TB/1470	4 ch Single Fiber MDU, A and B version
CO-SF4-EA/1270 and CO-SF4-EB/1270	4 ch Single Fiber MDU, A and B version, with upgrade port
CO-SF1/yyyy	1 ch Single Fiber OADM single sided
CO-SF2x1/yyyy	1 ch Single Fiber OADM dual sided
CO-OCU8020	Optical Coupler Unit 80/20
CO-OCU9010	Optical Coupler Unit 90/10
DWDM Filters	DESCRIPTION
CO-Dxxx-xxx	8 ch MDU ch xxx-xxx with upgrade port
CO-D40EV	40 ch MDU
CO-D40OD	40 ch MDU 50 GHz odd
CO-D40EV-E	40 ch MDU with 1310 port
CO-BSU1X5EV	5 port optical band unit
CO-BSU1x5OD	5 port BSU 50 GHz odd
CO-D1-xxx	1 ch/2 fiber AD, 50 GHz EV xxx
CO-D2-xxx	2 ch/2 fiber AD, 50 GHz EV xxx
CO-D4-xxx	4 ch/2 fiber AD, 50 GHz EV xxx
CO-DSF2/xxx	2 ch OADM SF yyy-xxx
CO-DSF4/xxx	4 ch OADM SF yyy-xxx
Chassis	DESCRIPTION
RMP-9014/01	19" 14 slot 3 RU rack mounted panel
RMP-9003/01	19" 3 slot 1 RU rack mounted panel
CO-FM/01	Fiber management unit
WMC-9002/01	Wall mounted cabinet
RMP-9002/01	19" 2 slot 1 RU rack mounted panel



TG RMP-9014



XTM Series Ethernet Demarcation Unit in XTG Series Chassis



TG RMP-9003



Fiber Management

About Infinera

Infinera (NASDAQ: INFN) provides Intelligent Transport Networks, enabling carriers, cloud operators, governments and enterprises to scale network bandwidth, accelerate service innovation and simplify optical network operations. Infinera's end-to-end packet-optical portfolio is designed for long-haul,

subsea, data center interconnect and metro applications. Infinera's unique large-scale photonic integrated circuits enable innovative optical networking solutions for the most demanding networks. To learn more about Infinera visit www.infinera.com, follow us on Twitter @Infinera and read our latest blog posts at: blog.infinera.com.

Global Headquarters
140 Caspian Court
Sunnyvale, CA 94089
USA
Tel: 1 408 572 5200
Fax: 1 408 572 5454
www.infinera.com

US Sales Contacts
sales-am@infinera.com

Asia and Pacific Rim
Infinera Asia Limited
8th floor
Samsung Hub
3 Church Street
Singapore 049483
Tel: +65 6408 3320
sales-apac@infinera.com

Europe, Middle East,
Africa
Infinera Limited
125 Finsbury Pavement
London EC2A 1NQ,
United Kingdom
Tel: +44 207 065 1340
sales-emea@infinera.com

Customer Service and
Technical Support
North America
Tel: 877 INF 5288
Outside North America
Tel: 1 408 572 5288
techsupport@infinera.com

