

ADTRAN Series

XGS-PON

10G Optical Network Terminals (ONTs)

SDX 600 Series



Benefits

- Most cost-effective delivery of symmetric multi-gigabit services
- Pluggable WAN interface for fixed wavelength
- 10GE and 1GE user interface
- IPTV video support including IGMP snooping feature set
- Traffic management through priority queuing, scheduling, policing and traffic shaping

Overview

Building Networks for Today and Tomorrow

Upgrading Fiber-to-the-Premises (FTTP) networks to next-generation 10G PON provides network operators the performance to extend the life of their Optical Distribution Network (ODN) while providing an architecture that supports cost-effective business and backhaul services delivery at greater than Gigabit speeds.

Delivering Cost-Effective Converged Residential and Business Services

The biggest challenge facing next-generation 10G PON is designing a single system that meets the scale and flexibility needs for premium business and backhaul services while also delivering on the price point needed for mass market residential applications. The ADTRAN family of next-generation XGS-PON ONTs utilizes a flexible optics approach that allows service providers to support existing fiber-to-the-home (FTTH) subscribers while providing a path to higher-bandwidth business and backhaul services.

ADTRAN offers a comprehensive portfolio of indoor and outdoor XGS-PON ONTs for single-family units (SFUs), small- to medium-sized businesses (SMBs), and enterprise deployments. The ADTRAN family of next-generation XGS-PON ONTs provides an array of options to address all subscriber utilization needs, from the growing smart home to the small business startup.

Advancing Next-generation Networks

The ADTRAN next-generation PON system elegance offers the ability to benefit from mass market price points without the wait for volume deployments of next-generation PON. This approach gives service providers confidence that they can move forward with a next-generation PON strategy today, without the risk of depending on a future worldwide volume ramp of 10G and tunable optics to make it cost-effective. Leveraging the additional capacity available through the disruptive ADTRAN next-generation PON solution set, service providers can extract an additional five to 10 years of revenue from this year's residential PON deployments, maximizing future service flexibility and minimizing the risk of subscriber churn.

SDN-Ready Solution with Mosaic Tools Compatibility

Additionally, the operational cost and complexity to connect an FTTP subscriber can be further reduced to accelerate the expansion of Gigabit broadband services. ADTRAN XGS-PON ONTs support provisioning through modern, open APIs, facilitating deployment in next-generation, SDN-based management systems. ADTRAN next-generation XGS-PON ONTs leverage the ADTRAN Mosaic™ software suite. This allows for zero-touch service activation and unmatched network analytics and visibility. This in concert with accelerated mass market electronics and optics pricing ensures that cost-sensitive residential broadband will be viable via 10G PON technologies. ADTRAN XGS-PON ONTs also support OMCI provisioning, bridging the gap between current and next-generation software-defined access (SD-Access) networks.

ADTRAN SERIES XGS-PON

Portfolio Summary



SDX 602X

10G Small Business Unit ONT

- Carrier Ethernet Feature Set
- SFP+ Network Interface
- SFP+ UNI



SDX 621

10G Small Family Unit ONT

- Optional POTS Support
- Optional 1G UNI



SDX 621X

10G Small Family Unit ONT

- SFP+ Network Interface
- IP Video Support



SDX 622vh

10G Outdoor ONT

- 10G Outdoor ONT
- Outdoor Temp Rating (-40 to 65C)
- Corning Housing



SDX 624v

10G Multiport ONT

- Optional POTS Support
- Optional 1G UNI

SDX 600 Series ONTs

	602x 1287822Fx	620s 1287840Fx	621x 1287823Fx	621 1287830Fx	621v 1287837Fx	621i 1287844Fx	622vh 1287835Fx	624v 1287845Fx	624vp 1287846Fx
Access Technology	XGS-PON	XGS-PON	XGS-PON	XGS-PON	XGS-PON	XGS-PON	XGS-PON	XGS-PON	XGS-PON
VoIP			2		1		2	2	2
10/100/1000 Ethernet	1		1			1	1	3	3
10G Ethernet	SFP+		RJ-45	RJ-45	RJ-45		RJ-45	RJ-45	RJ-45
Application	SBU	SBU	SFU	SFU	SFU	SFU	SFU	SFU	SBU
Features	SFP+ WAN	SFP+	SFP+ WAN	Indoor	Indoor	Indoor	Outdoor	Indoor	PoE+
SDN-Ready	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mosaic Apps Compatible	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ordering Information

Equipment	Part No.
ADTRAN 602X Small Business Unit ONT	1287820Fx*
ADTRAN 620s Small Business Unit ONT	1287840Fx*
ADTRAN 621 Single Family Unit ONT	1287830Fx*
ADTRAN 621i Single Family Unit ONT	1287844Fx*
ADTRAN 621v Single Family Unit ONT	1287837Fx*
ADTRAN 621x Single Family Unit ONT	1287823Fx*
ADTRAN 622vh Single Family Unit ONT	1287835Fx*
ADTRAN 624v Single Family Unit ONT	1287845Fx*
ADTRAN 624vp Small Business Unit ONT	1287846Fx*
Bundles	
621X + SFP Bundle	4287823Fx*

*ONTs available in US, UK, EU, and AU versions.



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