

ADTRAN

2nd-Gen Gfast

Gigabit Service Capable ONU and CPE Portfolio



Gigabit



Open Architecture



Sealed



Low TCO



Enabled

Summary

- Most complete and open 2nd-Gen Gfast Portfolio
- From 1-port to 48-port symmetric Gigabit-ready Gfast ONUs
- Choice of housing, mounting and power variants
- Indoor or sealed, weather-hardened outdoor ONUs
- Wall, pedestal, pole, pit or rack mount
- Local power (AC) or reverse (subscriber provided)
- Next-generation (Netconf/Yang) or traditional OMCI management models
- Portfolio of Gigabit-ready CPE

Overview

Gfast: Advancing the Gigabit Society

As we enter a new decade, Gigabit Society momentum continues to grow, fueled by increasing investments in fiber-based networks. However, a majority of the world's population live in multiple dwelling units (MDUs) and apartments, which are hard to connect due to the complexity, cost and disruptive nature of extending fiber to each living unit.

Gigabit → Faster

The ADTRAN SDX 2200 Series of 2nd-gen (212MHz) Gfast Optical Network Units (ONUs) are a complementary solution to existing GPON or next-gen XGS-PON full-fiber networks. Service providers can leverage SDX 2200 Series Gfast ONUs to extend Gigabit services using Fiber-to-the-Building/ Premises/Distribution Point (FTTB/ FTTP/ FTTdp) architectures over existing in-building or in-home wiring (twisted pair or coax), eliminating the cost and time for fiber trenching and rewiring each home or living unit, thus speeding up Gigabit service coverage and enabling faster monetization of fiber investments. Expanded 212MHz spectrum and built-in dynamic time assignment (DTA), allows service providers to cost-effectively deliver symmetric Gigabit services by dynamically allocating upstream and downstream bandwidth capacity according to customer application needs. The SDX 2200 Series comes with a broad variety of port densities, allowing service providers to optimize their investment to the needs of the respective deployment scenario.

Most Complete 2nd-Gen Gfast Portfolio

The ADTRAN SDX 2200 Series is the broadest and most comprehensive 2nd-Gen Gfast portfolio in the industry, ideally suited to cover a wide variety of deployment scenarios ranging from single-family homes (SFUs) to medium-density garden-style apartments to dense high-rise condominiums.

Built from a common hardware and software platform, the SDX 2200 Series of Gfast ONUs offers a wide variety of port densities (1, 4, 8, 16, 24 and 48 ports), flexible powering options (local and field-proven reverse powered variants), and in both indoor and sealed outdoor housing. Indoor units are either rack- or wall-mountable, while the sealed outdoor units can be mounted on an exterior wall, in a pedestal, on a pole, or in an underground handhole. The ADTRAN portfolio also includes gigabit-ready Gfast modems and reverse-power injectors (RPIs) for placement within the living unit.

Open, Programmable and Scalable Network Management

The ADTRAN Gfast solution is complemented by the ADTRAN Mosaic™ Cloud Platform offering a modern management system with full FCAPS functionality with an intuitive GUI for device configuration and service activation. Open, standards-based north-bound APIs simplify integration into existing IT/OSS systems, enabling automation of network and service management, and ease migration to SDN-based Orchestration & Management Systems. The single-port and 4-port ONUs are OMCI managed from the OLT, and support Gfast profile management and assurance via Mosaic CP using NETCONF/YANG.

ADTRAN 2ND GEN GFAST

Portfolio Summary



FTTH-Aligned (OMCI) 1-4 Port Count 212MHz Gfast ONUs

- Single Port Indoor (IP22 Rated) and 4-Port Outdoor (IP67/68 Rated) Variants
- Single GPON Uplink; Reverse Powered
- OMCI Management
- Profile management and service assurance from Mosaic CP (via NETCONF/YANG)



Outdoor (Sealed) 212MHz Gfast ONUs

- 8 and 16-Port Variants
- Sealed, Weather-Resistant (IP67/68 Rated) for Outdoor Deployments
- 1/10G P2P or GPON/XGS-PON Uplink
- AC and Reverse Powered Variants
- NETConf/YANG Management from Mosaic Cloud Platform



Indoor (FTTB) 212MHz Gfast ONUs

- 4, 8, and 16-Port Variants
- Temperature-hardened (IP30 Rated) for Indoor Deployments
- 1/10G P2P or GPON/XGS-PON Uplink
- AC and Reverse Powered Variants
- NETConf/YANG Management from Mosaic Cloud Platform



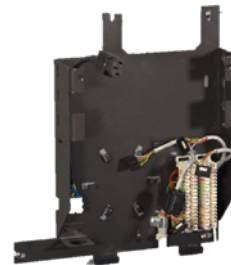
High-Density (Pizza-box) 212MHz Gfast ONUs

- 24 and 48-Port Variants
- Temperature-hardened (IP30 Rated) for Indoor or Cabinet Deployments
- 2 x 1/10G P2P or Single GPON/XGS-PON Uplink
- AC-Powered
- NETConf/YANG Management from Mosaic Cloud Platform



212MHz Gfast Bridge Modems

- Twisted Pair and Coax Variants
- Built-In or Separate External Reverse Power Injector (Rpi)
- Wall-mountable

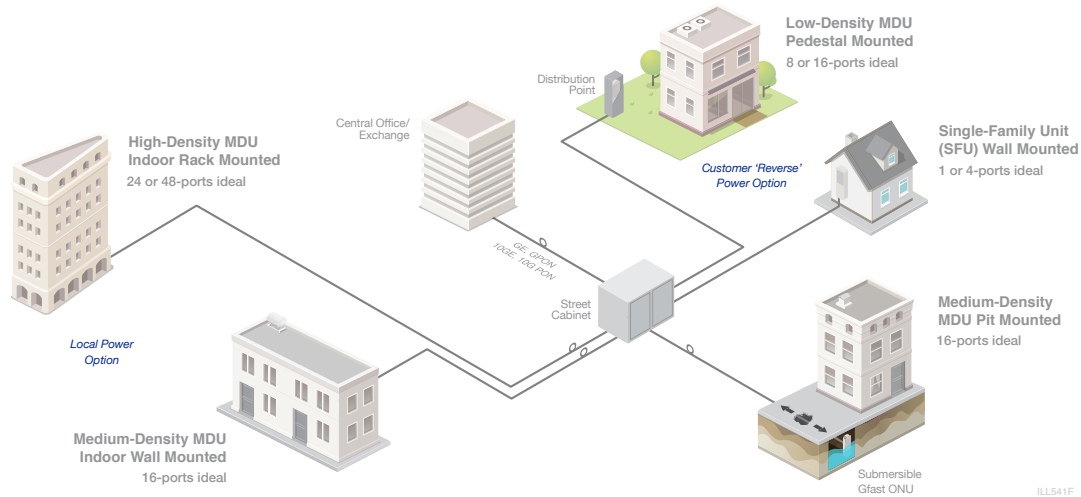


Gfast ONUs Wall Mounting Kit

- Twisted Pair and Coax Variants
- Kit Includes Applicable Power and Fiber Cables

Gigabit Service Capable ONU and CPE Variants

Gfast Deployment Variants



Comparing Gfast ONU

	Low-port FTTH (OMCI) Aligned		Medium-port Outdoor (Sealed)		Medium-port Wall-mount Indoor			High-port Rack-mount Indoor	
	SDX 2222-01	SDX 2222-04	SDX 2221-08	SDX 2221-16	SDX 2221-04	SDX 2221-08	SDX 2221-16	SDX 2221-24	SDX 2221-48
Ports	1	4	8	16	4	8	16	24	48
Wiring Support	Twisted Pair & Coax		Twisted Pair						
Indoor/Outdoor (IP-Rating)	Indoor (IP22)	Outdoor (IP67/68)			Indoor (IP30)				
Application	SFU or MDU		MDU						
Powering	Reverse		Reverse or AC				AC		
Uplinks	1 x GPON		10G (P2P or GPON/XGS-PON)				2 x 10G P2P or GPON/XGS-PON		
OMCI Management	•	•							
NETConf/YANG Management by Mosaic CP	(optional; for profile management and assurance)		•	•	•	•	•	•	•
Mounting	Wall	Pedestal, Wall, Pit, Pole			Wall				
Temperature Range	32°F to 122°F	-40°F to +149°F			32°F to 122°F			-40°F to 185°F	
Operating Environment	5-90% Relative Humidity, Non-Condensing	100% Relative Humidity, Condensing, Lightning Protected			5-90% Relative Humidity, Non-Condensing				

Ordering Information

Part Number	11321791F1*	11321703Fx*	11321771Fx*	11321781Fx*	11321708Fx*	11321772Fx*	11321782Fx*	11321714Fx*	11321774Fx*
-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

* Additional ONU configurations including options for line test, SFP and cabling are available for quote. Please email support@adtran.com

ADTRAN 2ND GEN GFAST

Comparing Gfast CPE and Reverse Power Injectors (RPIs)

	212MHz Gfast Bridge Modems			Reverse Power Injectors (RPIs)	
	422G	423G	423GC	RPI-15	RP1-21
User Ports (100/100Base-T)	1				
WAN Wiring Support	Twisted Pair		Twisted Pair & Coax		
Reverse Power Injector	Integrated				
Reverse Power Output	15W (SR2) or 21W (SR3) (Automatic Detection)			15W	21W
Ordering Information					
Part Number	11321713F22	11321713F23*	11321713F24*	11321713F8x*	11321713F8x*



ADTRAN, Inc.
901 Explorer Boulevard
Huntsville, AL 35806
256 963 8000

General Information
800 9ADTRAN
adtran.com/contactus

Canada—Montreal, Quebec
+1 877 923 8726
+1 514 940 2888
sales.canada@adtran.com

Mexico and Central America
+1 52 55 5280 0265 Mexico
sales.cala@adtran.com

6113217xxFx-8J

February Copyright © 2020 ADTRAN, Inc. All rights reserved. ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN and the other trademarks listed at www.adtran.com/trademarks are registered trademarks of ADTRAN, Inc. or its affiliates in various countries. All other trademarks mentioned in this document are the property of their respective owners.

ADTRAN warranty duration and entitlements vary by product and geography. For specific warranty information, visit www.adtran.com/warranty

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding exportation of ADTRAN items (e.g. commodities, technology, software), please visit www.adtran.com/exportlicense.



ISO 9001
ISO 14001
TL 9000