Adtran

Solution brief



Enclosures and cabinets

Benefits

- **Accelerate next-generation broadband services**
- **Cost-effective, flexible cabinet solutions**
- **Pre-engineered and tested for multiple deployment scenarios**
- **Effortless installation assures long-lasting quality**
- **Industry's most complete service set**
- **Streamlined maintenance and support programs**
- **Greater service reliability in harsh environmental conditions**

A cornerstone of network evolution

Subscriber internet needs are growing. From school to business to healthcare to communicating with loved ones, a quality internet connection is a crucial utility that powers all facets of our lives. Service providers delivering internet services to the modern community must have an infrastructure to support subscribers' ever-growing demands. They need a fully engineered, easy-to-install cabinet solution to bring these communities a faster and more reliable internet connection while protecting their investment in the harshest environments.

We offer a variety of highly configurable, scalable options that provide years of reliable service while laying the foundation to roll out next-generation technologies in the future. Our all-in-one designs integrate fiber, power, cable management, and broadband access equipment with active and passive components, enabling further deployment into the network.

Enclosures and cabinets



Micro Cabinet



Crossover Series



SmaRT Series



MC Series

Accelerated time to market for premium service delivery

Cabinet installations are nothing new to experienced service providers. Many have elected to purchase and configure their cabinets in the past, which takes up valuable time and resources. Today's service providers need quick and easy-to-deploy cabinet solutions to keep up with subscriber demands for reliable, high-speed internet. Thanks to our all-in-one designs and rigorous testing, investing in our complete, engineered cabinet solutions significantly reduces installation time and effort for on-site technicians and gives service providers a quality solution that they can depend on for years to come.

The right blend of cabinet design and broadband solutions

Our cabinet solutions range from rapidly deployable lower line count Crossover and SmaRT enclosures to highly scalable MC enclosures to ultra-compact Micro Cabinet enclosures. All of these cabinets are designed around next-generation technology and allow service providers to deploy PON further into their networks more quickly and cost-effectively.

Compliance with standards

Full compliance with industry standards is a hallmark of our product design, and cabinet configurations are no exception. Our enclosures comply with Telcordia GR-487 to ensure long-term reliability and complete protection of outside plant communications equipment. Rigorous thermal testing provides optimized equipment positioning to ensure that all products continue service delivery, even in the most challenging environments.

Key features

- Temperature hardened to full outdoor ambient range
- Stake, pad, pole, or H-frame mounting options
- Optical fiber wiring and fiber management
- Internal splitter storage
- Built-in heat exchanger
- High-capacity battery strings (sold separately)
- Rear access to all equipment
- Intrusion alarm switches on doors
- Telcordia GR-487, NEMA Type 3R, UL 60950-1 compliance
- Zone 4 earthquake-compliant

Portfolio summary



Crossover Series

Our Crossover Series is the ideal cabinet solution for sparsely populated or hard-to-reach locations. It provides up to 96 PON ports and serves up to 3,072 subscribers. Our ultra-compact design drastically reduces the cost and time required for installation and requires minimal physical space of fewer than 40 inches in height and less than 15 cubic feet in volume. This allows for more pedestal-like mounting techniques, thus eliminating the need for a concrete pad. With the capability to host up to two SDX 6000 Series OLTs or two TA5004 OLTs, it offers swift deployment – achievable in just a few hours by a two-person team and a pickup truck.



SmaRT Series

Our SmaRT Series of cabinets represents the most cost-effective way to deploy up to four SDX 6000 Series OLTs or one TA5000 Series OLT. It provides up to 192 PON ports and serves up to 6,144 subscribers. Even with its compact size of less than 42 inches in height and less than 28 cubic feet in volume, it offers an additional 5RU of open rack space for optional expansion services like fiber monitoring solutions.



MC Series

The MC Series, our most expansive cabinet solution, is tailored for substantial fiber network deployments. It provides up to 336 PON ports and serves up to 10,752 subscribers. Our modular design streamlines network growth, allowing for the effortless addition of hardware and components. Capable of housing up to seven SDX 6000 Series disaggregated OLTs or two TA5000 Series OLTs, this cabinet solution offers a comprehensive remote terminal solution ready to deliver fiber-to-the-home services.



Micro Cabinet

Our Micro Cabinet is purpose-built for rural and low-density broadband service delivery. This ultra-compact, lightweight solution can be pole or wall-mounted and comes with integrated cooling and remote powering options to accelerate deployment. The system requires limited maintenance due to its weather-hardened, sealed exterior. A single TA5004 provides up to 16 PON ports and serves up to 512 subscribers in an innovative, low-cost form factor.

Enclosures and cabinets



Micro Cabinet



Crossover Series



SmaRT Series



MC Series

100 — Subscriber density — 10,000+

Building block architecture

The beauty of our cabinet solutions lies in the flexible designs offered by our fiber platforms. These adaptable configurations allow service providers to grow as and when needed with multiple chassis sizes and various PON port counts to choose from. Adtran's focus with our fiber platforms is on simple installations, flexible deployments, and efficient operation to enable service providers to vastly lower costs to build, operate, and grow their networks.

		SDX 6330	SDX 6320	SDX 6324	SDX 6020	TA5000	TA5006	TA5004
Crossover Series	Example equipment config.	1	2	2	2			2
	10G Combo PON supported	•	•	•				•
	XGS-PON interfaces	48	32	8				64
	GPON interfaces	48	32	8	96			64
	Subscriber count	Up to 1,536	Up to 1,024	Up to 256	Up to 3,072			Up to 2,048
SmaRT Series	Example equipment config.	4	4	4	4	1	1	1
	10G Combo PON supported	•	•	•		•	•	•
	XGS-PON interfaces	192	64	16		168	48	32
	GPON interfaces	192	64	16	192	168	48	32
	Subscriber count	Up to 6,144	Up to 2,048	Up to 512	Up to 6,144	Up to 5,376	Up to 1,536	Up to 1,024
MC Series	Example equipment config.	7	7	7		2		
	10G Combo PON supported	•	•	•		•		
	XGS-PON interfaces	336	112	28		336		
	GPON interfaces	336	112	28		336		
	Subscriber count	Up to 10,752	Up to 3,584	Up to 896		Up to 10,752		
Micro Cabinet	Example equipment config.							1
	10G Combo PON supported							•
	XGS-PON interfaces							16
	GPON interfaces							16
	Subscriber count							Up to 512

Product specifications

Feature	Crossover Series	SmaRT Series	MC Series	Micro Cabinet
Dimensions (HxWxD)	42.00" x 24.00" x 24.00" including HTX on top	42.00" x 35.75" x 33.58" including HTX depth	68.25" x 42.85" x 53.50" including HTX depth	21.70" x 20.45" x 10.57" including HTX depth
19"/23" Rack units	5RU with 19" vertical rack	16RU with 23" rack	21RU front/19RU rear 23" rack	2RU with 19" rack
Weight	81 lbs.	180 lbs.	560 lbs.	35 lbs.
Color	Off white	Off white	Off white	Off white
Ambient equipment temperature	-40 to +46°C			
Equipment temperature	-40 to +65°C (I-Temp)			-40 to +65°C with excursions to +70°C
Storage temperature	-40 to +70°C			-40 to +85°C
Relative humidity	95%, non-condensing			100%, non-condensing
Cooling	931W	1,945W or 2,736W dependent on configuration	2,736W or 5,472W dependent on configuration	500W
Mounting options	Pad, pole, H-frame, or stake	Pad, pole, or H-frame	Pad, pole, or H-frame	Pole, H-frame, or wall
Power feed	120/240VAC (3W+PE), single-phase 50-60Hz, 15A	120/240VAC (3W+PE), single-phase 50-60Hz, 60A	120/240VAC (3W+PE), single-phase 50-60Hz, 60A/70A/80A	120 or 240VAC, single-phase, 50/60Hz, 15A ±190VDC span voltage
DC output	-42 to -54VDC (-48VDC nominal)			N/A
Equipment power	-48VDC redundant feed			
AC/DC rectifiers	ABB Slimline Power System (SPS841A) 48VDC	ELTEK Flatpack S 1U (FPSJ65I-ANL-VC) 48VDC	ELTEK Compact Series (CI56I-ANL-VC) 48VDC	TA5004 AC power module TA5004 span power module
Battery backup	Supports one string of four 12V, 100Ah batteries (not included)	Supports one string of four 12V, 190Ah batteries (not included)	Supports one, two or four strings of four 12V, 190Ah batteries depending on model (not included)	Optional holdup capacitor kit: 665W
Generator connector options	30A, 120/240VAC, NEMA L14-30P inlet	30A, 120/240VAC, NEMA L14-30P inlet	30A or 60A, 120/240VAC, NEMA L14-30P inlet	N/A
Fiber management options	Up to eight 12 or 24-position splice cassettes or bulkhead panels plus 12-position uplink cassette Up to 192-position fiber distribution	Up to twenty-four 12 or 24-position splice cassettes or bulkhead panels plus 12-position uplink cassette Up to 576-position fiber distribution	Up to forty-eight 12 or 24-position splice cassettes or bulkhead panels Up to 1152-position fiber distribution	Connectorized fiber cable provided with cabinet
Compliance	Meets Telcordia GR-487 requirements Meets NEMA Type 3R requirements Meets UL 60950-1 requirements			

Enclosures and cabinets

Ordering information

Equipment		Part No.
Enclosures pre-wired for SDX 6000 Series OLTs		
SDX 6000 Series Crossover cabinet	Wired for up to two SDX OLT chassis	4192XOSDXGL1
SDX 6000 Series SmaRT cabinet	Wired for up to four SDX OLT chassis	4192TSDX6330L1
SDX 6000 Series MC cabinet	Wired for up to seven SDX OLT chassis	4192ASDX6330L1
Main components included in cabinet: DC power shelf, AC load center, heat exchanger, and fiber patch/splice cassette (Crossover and SmaRT cabinets only) Sold separately: SDX OLTs, DC rectifier modules, PON splitter shelf, fiber jumpers, mounting kits, batteries, and fiber distribution panels (Crossover and SmaRT cabinets only)		
Enclosures for TA5000 Series OLTs		
TA5004 Crossover cabinet	Wired for up to two TA5004 OLTs	419254FDCLx
TA5004 SmaRT cabinet	Wired for one TA5004 OLT	4192T54FDCL4
TA5006 SmaRT cabinet	Wired for one TA5006 OLT	4192T56FDCL4
TA5000 SmaRT cabinet	Wired for one TA5000 OLT	4192T5KFDL4
TA5000 MC cabinet	Wired for up to two TA5000 OLTs	4192AE504L4
TA5004 Micro Cabinet	Wired for one TA5004 OLT	4192M54F1xL1
Main components included in cabinet: TA5000 Series OLT chassis, DC power shelf, AC load center, heat exchanger, and fiber patch/splice cassette (Crossover and SmaRT only) Sold separately: TA5000 Series common modules, access modules, front blanks, DC rectifier modules, PON splitter shelf, fiber jumpers, mounting kits (excluding Micro Cabinet), batteries, and fiber distribution panels (Crossover and SmaRT cabinets only)		

Updated November 27, 2024

Adtran

Copyright © 2024 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.

EQUIPMENT FOR SALE

ADTRAN CROSSOVER SERIES CABINETS

SDX 6000 Series OLT Cabinets

Part # 4192XOSDXGL1 | DC power system w/ heat exchanger

ADTRAN®







BRAND NEW IN BOX

Large Quantities Available!

Contact Today
For Current Inventory

Visit **TELECOMCAULIFFE.com**

✓ REDUCING **LEADTIMES** ✓ COST **SAVINGS** ✓ LIFETIME **WARRANTY** ✓ SUSTAINABLE **SOLUTIONS**

PICS | TELECOMCAULIFFE
A PICS TELECOM TEAM

BILL MCAULIFFE
Director of Sales – National Accounts
TEAMMCAULIFFE@PICSTELECOM.COM | 585.746.6383 | TELECOMCAULIFFE.COM

* This document contains confidential and proprietary information that is the property of PICS Telecom International, which is provided for the sole purpose of permitting the recipient to respond to this Equipment Sale flyer. No part of this document is to be used without written permission by PICS Telecom. All trademarks, trade names, photos, or logos mentioned or used are the property of their respective owners and are intended solely for identification purposes.