

# Wireline Service Delivery Products

First Edition





# Wireline Service Delivery Products

## Table of Contents

Ethernet Business Service Solutions	.1
Wi-Fi Data Access Solutions	.2
Tiered Service Creation Solutions	.3
T1 Service Delivery Products	.4-5
HiGain T1 Service Delivery Products	.6-9
T1 Indoor Remote Enclosures	.10
T1 Outdoor Remote Enclosures	.11
Enterprise Solutions – Campus-RS™	.12-13
Enterprise Solutions – Megabit Modems	.14
PG-FlexPlus Edge RAM	.15



# Ethernet Business Service Solutions

## LoopStar™ 800



The LoopStar™ 800 is an advanced next-generation SONET access system that allows service providers to cost-effectively deploy and manage TDM and Ethernet services to end-user customers from a single platform. Designed for both central office and customer premises environments, the LoopStar 800 is ideally suited for all network deployment applications. With an integrated universal back-plane architecture, the system supports multiple interchangeable network and tributary interface cards for easy and economical service deployments. Combined with advanced management, control and protection features, the LoopStar 800 provides carriers the lowest total cost solution for delivering both TDM and Ethernet services.

### Ordering Information

Description	Catalog Number
LoopStar 800 Chassis Assembly	LPS-FRM800-L1
2xOC-3 Optical Interface Unit with STS-1 switching	LPS-XO3D0x
OC-3 Optical Interface Unit with STS-1 switching	LPS-XO30x
2xOC-12 Optical Interface Unit with STS-1 switching	LPS-XO12D0x
OC-12 Optical Interface Unit with STS-1 switching	LPS-XO120x
2xOC-12 Optical Interface Unit	LPS-OC12D0x
OC-12 Optical Interface Unit	LPS-OC120x
4xOC-3 Optical Interface Unit	LPS-OC3Q0x
2xOC-3 Optical Interface Unit	LPS-OC3D0x
OC-3 Optical Interface Unit	LPS-OC30x
1x1000Base-FX Ethernet + 4x10/100BT Unit	LPS-ET4GS0y
14xDS1 Tributary Unit	LPS-PLT101
28xDS1 Tributary Unit	LPS-PDT101
3xDS3 Tributary Unit	LPS-PLT301
12xDS3 Tributary Unit	LPS-PQT301
84xDS1 Electrical Interface Board	LPS-POI101
24xDS3 Electrical Interface Board	LPS-POI301
28xDS1 + 12xDS3 Electrical Interface Board	LPS-P1P113

x = 1, 2 or 3 (where 1 = 15km, 2 = 40km, and 3 = 80km)

y = 1, 2 or 3 (where 1 = 500m, 2 = 10km, and 3 = 40km)



# Wi-Fi Data Access Solutions

## LoopStar™ 200 Line-Powered ADSL Wi-Fi

9 / 0 4 • 1 2 9 4 5 7 4 Wireline Service Delivery Products



Power Module



Outdoor Access Point



Low Profile Access Point

ADC's carrier class LoopStar™ 200 Wi-Fi solutions feature an industry-first, line-powered access point that offers service providers a low-cost and easy-to-deploy approach for building a network of Wi-Fi hotspots. The LoopStar Wi-Fi family provides solutions for access point only applications and more elaborate access point plus access controller functionality. Supporting ADSL access technology, the LoopStar Wi-Fi products provide line-powering capability that allows access points to be located where needed when commercial power is not readily available. With this Wi-Fi solution, service providers can fully leverage the value of their copper infrastructure and network assets to extend broadband wireline into the wireless network.

### Ordering Information

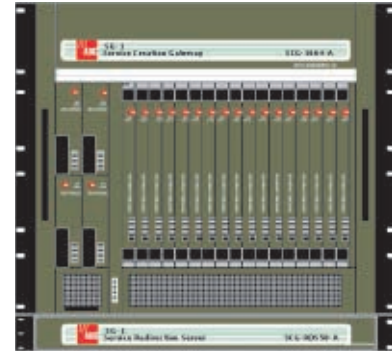
Catalog Number	Part Number
<b>LoopStar ADSL Wi-Fi</b>	
LPS-202R L1A1 (Access Point)	1262152
LPS-202R L1B1 (Access Point)	1262153
LPS-212R L1A1 (Access Point and Access Controller)	1276819
LPS-212R L1B1 (Access Point and Access Controller)	1276820
<b>LoopStar G.SHDSL Wi-Fi</b>	
LPS-200R L1A1 (Access Point)	1262148
LPS-200R L1B1 (Access Point)	1262149
LPS-210R L1A1 (Access Point and Access Controller)	1273812
LPS-210R L1B1 (Access Point and Access Controller)	1273813
3192 Mechanics Management-Capable Shelf	HMS-318 L3
Power Module for 3192 Mechanics Shelf	LPS-300C L1
External Antenna Mounting Kit (N-type)	LPS-299 L1



# Tiered Service Creation Solutions

## SG-1 Service Gateway

The SG-1 Service Gateway is designed to enable service providers to offer dynamic value added services including content and bandwidth-on-demand easily and cost effectively. Broadband services can be quickly and profitably marketed to target customers over a web-based medium, increasing the take rates on promotional activities. The product offers better scalability and configuration flexibility, easier and economical service definition and enforcement procedures, and reduced integration expenses.



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9 / 0 4 • 1 2 9 4 5 7 4

### Ordering Information

Description	Catalog Number
SG-1 Assembly (incl. Cage 10U + MBs, fan units, blank panels & set of cables) (*) VAC	SG1-400-005-L1A
SG-1 Assembly (incl. Cage1U + MBs, fan units, power sup., blank panels & set of cables)* VAC	SG1-400-007-L1A
POPmaestro Assembly (incl. Cage 10U + MBs, fan units, blank panels & set of cables) (*) - For DC supply	SG1-400-008-L1A
SCC-Eth card - 2,000 concurrent sessions hardware support	SG1-650-003
SCC Rear-IO Module (including 2 x 10/100 Ethernet - rear-IO module is mandatory)	SG1-650-004
Service Creation Card GEth with 2 x 1000 Base SX/SC connectors	SG1-650-017
Service Creation Card GEth with 2 x 10/100/1000BaseT RJ-45 connectors (front access)	SG1-650-028
Service Creation Card ATM155 with 2 x singlemode LC connector and 2 x 1000 Base SX/SC connectors	SG1-650-020
Service Creation Card ATM155 with 2 x multimode LC connector and 2 x 1000 Base SX/SC connectors	SG1-650-022
Power Supply Module 90V-230VAC (***) 10U	SG1-603-002
Power Supply Module -48VDC (***) 10U	SG1-603-003
Memory Extension Module - 256M	SG-1-650-024



# T1 Service Delivery Products

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4



LoopStar™400

LoopStar™ 400 is an intelligent, carrier-class broadband access and transport system that allows service providers to cost-effectively deploy and manage HiCap T1 services using their existing TDM networks and local loop facilities. The system features interchangeable multiplexer cards for easy expansion of network capacity demands and multiple T1 local loop transport cards for variable loop deployment options.



Soneplex Broadband System Chassis

The Soneplex Integrated Broadband System supports a working and redundant DS3 network interface and up to 28 DS1 loop transport modules. The system features integrated network management and supports an integrated baffle with fiber guides to aid in installation practices.

## Ordering Information

Description	Catalog Number
<b>LoopStar™ 400 Broadband Access and Transport System</b> LoopStar 400 Chassis 1 Rack Unit Fan Assy LoopStar 400 System Controller Unit Alarm Processing Unit	LPS-FRM-L1 FAN-THINLN1 LPS-SCUV51-L1 SPX-APUOB1
<b>Soneplex Loop Extender Chassis</b> Loop Extender Chassis (LEC), 23", wire wrap Heat baffle for LEC, 23" with integrated cable management Loop Extender Chassis, 19" wire wrap	SPX-FRM1A2 SPX-BAFF1A1 SPX-FRM2A1
<b>Soneplex Broadband System Chassis</b> 23" Chassis for Soneplex Broadband System, Connectorized with Heat Baffle 23" Connectorized Chassis for the Soneplex Integrated Broadband System with Heat Remote Test Access Unit	SPX-FRM0A3CT-4BF  SPX-FRM0A4CT SPX-RTAU0A11
<b>Soneplex Shelf Controller Unit (SCU)</b> Shelf Controller Unit v4.1 - for LEC & BB Shelf	SPX-SCUOA41
<b>Soneplex Alarm Processor Unit (APU)</b> Soneplex Alarm Processor Unit - for both Chassis	SPX-APUOB1
<b>Soneplex Supplemental CO Equipment</b> BNC Blockhead Panel 2X14 Circuit WW to BNC Cable Assembly cable length 10 ft WW to BNC Cable Assembly cable length 24 ft	VI-28-BBG BNC-3-CBL-WW-10 BNC-3-CBL-WW-24
<b>Soneplex T1 Repeater</b> T1 Repeater Module for Soneplex Systems	SPX-RLXIOR0A3
<b>Soneplex Fiber Delivery Solutions</b> Soneplex Quad Loop Extender, Assembly Option SC Connectors Soneplex Single Fiber Loop Extender Central Office Line Card Soneplex Single Fiber Loop Extender Remote Line Unit	QLX-SCA211 WQLXC-SCA100 WQLXR-SCA100



# T1 Service Delivery Products

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4



Soneplex HDSL2 Central Office and Remote Modules



Soneplex HDSL Remote Enclosure

ADC's HDSL2 Central Office (LPS-H2C) and HDSL2 Remote (H2TU-R) modules are designed for the Soneplex system. Soneplex offers the highest quality, lowest cost T1 delivery solutions to business customers today. The H2LXC and H2LXR operate together to provide full-duplex DS1 transport over a single unconditioned, non-loaded copper pair up to 12,000 feet.

## Ordering Information

Description	Catalog Number
<b>Soneplex HDSLX Central Office Line Unit Modules</b>	
HDSL Central Office Module for Soneplex Systems	SPX-HLXCG2
SPX T1 Repeater Module	SPX-RLXIOR0A3
Soneplex Module, DDM Plus	SPX-DDM0A1
HDSL2 Central Office Module for Soneplex Systems	LPS-H2C-L7A
HDSL2 Central Office Module, with protection switching for Soneplex Systems	SPX-H2LXCC1P
HDSL4 Central Office Module for Soneplex Systems	LPS-H4TU-C-L5
<b>Soneplex HDSLX Remote Terminal Modules</b>	
HDSL Remote Module for Soneplex Systems 200 Mechanics	SPX-HLXRG4
HDSL2 Remote Module supports LoopStar 400 CO Line Unit	H2TU-R-402-L7A
HDSL2 Remote Module, with protection switching for Soneplex Systems	SPX-H2LXRC1P
HDSL4 Remote Module supports LoopStar 400 CO Line Unit	H4TU-R-402-L5A
<b>Soneplex HDSL4 Doubler Unit</b>	
HDSL4 Doubler Unit	H4D-409-L2
HDSL Slimline 239 Repeater	SPX-HRPTSWD1
<b>Soneplex Remote Enclosures</b>	
Remote HDSL Eight-position chassis	31MA30
200 or 400-Type wire-wrap and RJ connections, 2 position wall-mount chassis	HWM-02B
200 or 400-Type, screw-down terminal block and RJ connections, wall-mount	HWM-T01
HDSL Single-Shot Enclosure with Repeater (SPX-HRPTSWD1)	SPX-HRXPOB5
HDSL4 Single-Shot Enclosure with Repeater (H4D-409-L2)	SPX-HRXPOB7



# HiGain T1 Service Delivery Products

9 / 0 4 • 1 2 9 4 5 7 4 Wireline Service Delivery Products



HiGain HMU-319



Wideband 3190

The Wideband 3190 (WBS-3190) combines an industry-standard STS-1 or DS3 multiplexer with ADC's industry-standard HDSL, HDSL2 or HDSL4 distribution system. The Wideband implementation maintains full compatibility and interoperability with HiGain legacy products. This product compatibility allows you to protect your current investment in HDSL, while benefitting from our latest technology developments.

## Ordering Information

Description	Catalog Number
<b>Wideband System - Chassis, Kits, Bays</b>	
Wideband Chassis, Split Power	HMS-358-L5
Wideband Chassis, Redundant Power	HMS-358-L6
Wideband Single Shelf Kit with Management Card and Fan	WBS-3190 L9
Wideband One Shelf Bay	WBS-3190-L8
Wideband Two Shelf Bay	WBS-3190-L11
Wideband Three Shelf Bay	WBS-3190-L10
Wideband Four Shelf Bay	WBS-3190-L7
<b>Wideband System - Management Unit</b>	
Wideband Management Unit	HMU-319L7V32
<b>Wideband System - Multiplexers</b>	
STS-1 SONET Mux Card	HXU-359L2V11
DS3 Mux Card	HXU-360L1V11
<b>HiGain DSX1 Line Unit Modules</b>	
Cut-through Card for Wideband System 3190 Chassis.	HCC-319-L2
<b>HiGain HDSLX Central Office (3192 Mechanics) Line Unit Modules</b> (Please see page 8)	



# HiGain T1 Service Delivery Products

9 / 0 4 • 1 2 9 4 5 7 4 Wireline Service Delivery Products



HiGain Chassis

The HiGain Managed Central Office Shelf houses a maximum of 28 HDSLx line units and one HiGain Management Unit. Both connectors and wire-wrap pins are provided for connecting to the DSX/G.703 and HDSL spans. Each shelf provides power and alarm connections with backplane communications between the management unit slot and the other card slots.

## Ordering Information

Description	Catalog Number
<b>HiGain Chassis</b>	
HiGain Managed Shelf, 23-inch CO Shelf, 3192 Mechanics	HMS-317 L2
HiGain Managed Shelf, 19-inch CO Shelf, 3192 Mechanics	HMS-318 L2
HiGain 23-inch CO Shelf, 220 Mechanics, 14 Slots	HCS-417 L3
HiGain 19-Inch CO Shelf, 220 Mechanics	HCS-418 L3
HiGain CO Shelf, Horizontal 3192 Mechanics, Three Slots, Separate GND and FGND	HHS-319 L1
HiGain CO Shelf, Horizontal 3192 Mechanics, Three Slots, Common GND and FGND	HHS-319 L1B
HiGain CO Shelf, Horizontal, 400 Mechanics, Three Slots	HUS-340
<b>HiGain Test Shelves</b>	
HiGain CO Test Set, Two Slots, AC/DC, No Power Supply	HCS-402 L3
HiGain CO Test Set, Two Slots, AC/DC, with Power Supply	HCS-402 L3A
HiGain Shelf Adapter, 3190 to 220 (402) Mechanics	HSA-319 L1
HiGain Shelf Adapter, DDM+ (388) to 220 (402) Mechanics	HAS-388 L1
HiGain Remote Test Set, Two Slot, 310 Jacks	HRT-442 L1
HiGain Remote Test Set, Two Slot, 210 Mini-Bantam Jacks	HRT-442 L2
HiGain 400 Mechanics Power Supply, 115 VAC to -48 VDC	HPS-448 L1
<b>HiGain Management</b>	
HiGain Management Unit	HMU-319 L7AV32
HiGain Retrofit Management Shelf, 19"/23" for unmanaged shelves	HRM-238 L1
HiGain Retrofit Management Bundle, HRM-238 L1 with 2-HMU-319 L7AV32	HRM-238-BNDL



# HiGain T1 Service Delivery Products

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4



HiGain HDSL4 DS1 Service Modules.



HiGain HDSL4 Remote Modules.



HiGain HDSL Repeater Modules.

ADC T1 transport products provide the most cost-efficient solutions for service providers to grow T1/E1 business services using HDSL, HDSL2, and/or HDSL4 technology. The Wideband System 3190 combines an industry-standard SONET or DS3 multiplexer with ADC's industry-standard HDSLx distribution system. In addition, the Wideband System 3190 offers full compatibility and interoperability with ADC's HiGain products for HDSLx transport of DS1 over copper.

## Ordering Information

Description	Catalog Number
<b>HiGain HDSLx Central Office Line Unit Modules</b>	
HDSL, 3192 Mechanics Line Unit, Generic	HLU-319 L5
HDSL, 220 Mechanics Line Unit	HLU-231 L8
HDSL, DDM + Mechanics Line Unit, Generic	HLU-388 L5
HDSL, 200 Mechanics Line Unit - Generic	HLU-432-L1
HDSL, 200 Mechanics Line Unit with DS1 and HDSL lines reversed - Generic	HLU-432-L2
HDSL2, 3192 Mechanics Line Unit, Generic	H2TU-C-319-L7
HDSL2, 220 Mechanics Line Unit, Generic	H2TU-C-231-L7
HDSL2, DDM + Mechanics Line Unit, Generic	H2TU-C-388-L7
HDSL4, 3192 Mechanics Line Unit, Generic	H4TU-C-319-L1
HDSL4, 220 Mechanics Line Unit, Generic	H4TU-C-231-L1
<b>HiGain Repeater/Doubler Modules</b>	
HDSL Repeater (micro-doubler) unit 200/400 Mechanics	HDU-404-L2
HDSL Repeater (micro-doubler) unit DDS/ISDN Mechanics	HDU-407-L2
HDSL Repeater (micro-doubler) unit 239 Mechanics	HDU-409-L2
HDSL Repeater (micro-doubler) unit 239 Mechanics, for greater density	HDU-409-L2A
HDSL4 239 Doubler Module	*H4D-409-L1

\*For use with L1 H4 line and remote units only.



# HiGain T1 Service Delivery Products

Wireline Service Delivery Products

9 / 0 4 • 1 2 9 4 5 7 4



HiGain HDSL2 Modules



HiGain Remote Units

ADC's HiGain® HDSL2 modules enable networks to operate even more efficiently and at lower temperatures than current technology allows. Power consumption and heat dissipation is reduced by more than 30 percent, enabling service provider's to avoid or defer capital expenditure additions to existing plants. By providing full-rate T1 access using just a single copper pair, HDSL2 enables service providers to quickly and cost-effectively meet the demand for more voice and data services – services that have become increasingly hard to deliver due to the shortage of copper cable.

## Ordering Information

Description	Catalog Number
<b>HiGain HDSLX Remote Unit Modules</b>	
HDSL, 200 Mechanics Remote, line/local powered - Generic	HRU-402 L1
HDSL, 3192 Mechanics Remote, line/local powered	HRU-419 L1
HDSL, 3192 Mechanics Remote, local powered	HRU-419-L3
HDSL, DDM+ Mechanics Remote, local powered	HRU-488 L1
HDSL2, 200 Mechanics Remote, line/local powered - Generic	*H2TU-R-402-L1B
HDSL2, 200 Mechanics Remote, line/local powered - Generic	H2TU-R-402-L7
HDSL4, 200 Mechanics Remote, Generic	**H4TU-R-402-L1

\*For use with L1-L6 HDSL2 line units only.

\*\* For use with L1 HDSL4 line units only.



# T1 Indoor Remote Enclosures for HiGain and Soneplex

9 / 0 4 • 1 2 9 4 5 7 4 Wireline Service Delivery Products



Enclosures and Shelves

ADC is a leader in the design and development of electronics enclosures that support multiple broadband applications. When infrastructure for technology is installed, expanded and modernized, it must be protected. ADC's enclosures and shelves protect sensitive electronics and ensure reliable operation for a variety of outdoor and indoor installations. They also support a variety of mechanics for central office, outside plant, and customer premises locations. The superior quality and design of ADC enclosures provide an optimal thermal environment for increased density and easy installation for many different applications and conditions.

## Ordering Information

Description	Catalog Number
<b>Indoor Enclosures</b>	
Remote, Single Slot, 200/400 Mechanics, RJ48C, wall mount	HRE-420 L1
Remote, Single Slot, 200/400 Mechanics, RJ48X, wall mount	HRE-420 L2
Remote, Single Slot, 200/400 Mechanics, DB15/RJ48C, wall mount	HRE-420 L4
Remote, Single Slot, 200/400 Mechanics, WW/RJ48C, wall mount	HWM-T01
Remote, Dual Slot, 200/400 Mechanics, DB15/RJ48C, wall mount	HRE-422 L4
Remote, Dual Slot, 200/400 Mechanics, WW/RJ48C, wall mount	HWM-02B
Remote, Three Slot, 200/400 Mechanics, Wire Wrap, rack mount	HUS-340 L1
Remote, Four Slots, 200 Mechanics, DB15/RJ48C, wall/desk mount	HRE-204 L3A
Remote, Four Slots, 200 Mechanics, RJ48X	HRE-204 L3B
Remote, Six Slots, 200 Mechanics, RJ48C, PS wall/desk mount	HRE-206 L1
Remote, Six Slots, 200 Mechanics, RJ48X, PS wall/desk mount	HRE-206 L2
Remote, Eight Slots, 200/400 Mechanics, wall/rack mount	31MA 30
Remote, Twelve Slots, 200/400 Mechanics, RJ48X/RJ48C wall/desk/rack mount	HRE-425
<b>Indoor Enclosures Accessories</b>	
Wallmount hinge for HRE-204	HRE-204-HMB
HiGain 400 Mechanics Power Supply, 115 VAC to -48 VDC	HPS-448 L1



# T1 Outdoor Remote Enclosures for HiGain and Soneplex, and M1:3 Muxes

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4



Radiator II – Above Ground



EnCaser 819



ThinMux Multiplexer

ADC's enclosures protect sensitive electronics and ensure reliable operation for a variety of outdoor and indoor installations. They also support a variety of mechanics for central office, outside plant, and customer premises locations.

ADC's ThinMux™ product family helps carriers build today's access networks that can easily adapt to meet tomorrow's needs. Only the ThinMux products provide a single platform to encompass many universal standards (SONET/SDH, DS3, T1/E1).

## Ordering Information

Description	Catalog Number
<b>Outdoor Enclosures</b>	
Remote Enclosure, Single/Dual Slot, 239 mechanics, above ground, 30' Gel Stub	HRE-601 L1
Remote Enclosure, Four Slot, 239 mechanics, above ground, 30' Gel Stub	HRE-504 L1
Remote Enclosure, Four Slot, 239 mechanics, above ground, 30' Air Stub	HRE-504 L2
Remote Enclosure, Four Slot, 239 mechanics, above ground, 100' Air Stub	HRE-504 L1B/12
Radiator II, 8 slot, 239 mechanics, below ground, 30' Air Core Stub	RAD-BA30-8
Radiator II, 8 slot, 239 mechanics, above ground, 30' Gel Core Stub	RAD-AG30-8
Radiator II, 16 slot, 239 mechanics, below ground, 30' Air Core Stub	RAD-BA30-16
Radiator II, 16 slot, 239 mechanics, above ground, 30' Gel Core Stub	RAD-AG30-16
EnCaser 819, 24 slot, 239 mechanics, below ground, 30' Air Core Stub	ENC-819-CA3P-PA3
EnCaser 819, 24 slot, 239 mechanics, above ground, 30' Gel Core Stub	ENC-819-CG3P-VA3
Remote/Doublers, 4 slot, 200/400 mechanics, 30' Gel Stub	HRE-454-L1A
Remote/Doublers, 4 slot, 200/400 mechanics, 30' Air Stub	HRE-454-L2A
Remotes/Doublers, One slot, 200/400 mechanics, Gel Stub	HRE-450-L2B
Remotes/Doublers, One slot, 200/400 mechanics, Air Stub	HRE-450-L3B
Remotes/Doublers, One slot, 200/400 mechanics, No Stub	HRE-450-L4B
Universal Test Card, fits any standard T1-239 mechanics repeater slot	HTC-239-L1
<b>ThinMux</b>	
DS3 Multiplexer Kit, Includes Chassis	THMX-DS3-L2
STS-1 Multiplexer Kit, Includes Chassis	THMX-STS1
ThinMux Chassis Enclosure	ACE-COM-L2
STS-1 SONET Mux Card	HXU-359L2V11
DS3 Mux Card	HXU-360L1V11
Fan Board Replacement Module	ACE-FAN
Replacement Filter Kit	ACE-FIL
Mounting Brackets, WECO	ACE-MK1



# Enterprise Solutions – Campus-RS™

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4



Campus-RS Remote Unit



Campus-RS Star Platform Aggregates Multiple HDSL Connections.

The Campus-RS Star system provides a central site platform for aggregating multiple HDSL connections. It interoperates with any combination of Campus-RS remotes or other Campus-RS Star platforms to The Campus-RS Star system provides a central site platform for aggregating multiple HDSL connections. It interoperates with any combination of Campus-RS remotes or other Campus-RS Star platforms to provide support for a variety of voice, video and data applications such as LAN extension, video conferencing, and PBX extensions in a private enterprise network.

## Ordering Information

Description	Catalog Number
<b>Desktop/Remote Site Access Devices</b>	
SDSL rate selectable (64kbps to 4.6 Mbps) Desktop Chassis, 110-240VAC power supply and US power cord	CARS-51-3
SDSL rate selectable (64kbps to 4.6 Mbps) Desktop Chassis, 110-240VAC power supply and European power cord	CARS-51-4
SDSL rate selectable (64kbps to 4.6 Mbps), internal 100-240VAC power supply and UK/Ireland power cord	CARS-51-5
SDSL rate selectable (64kbps to 4.6 Mbps) Desktop Chassis internal -48V DC power supply	CARS-52
<b>Star Chassis/Network Management Components</b>	
Campus-RS Star Chassis. Available slots can support up to 14 Line Units, 14 Interface Modules, one CMU and one power supply, US power cord (Second Power Supply optional)	CACNS700-03-3 CAPS-720-3
Campus-RS Star Chassis. Available slots can support up to 14 Line Units, 14 Interface Modules, one CMU and one -48V DC Power Supply, no power cord (Second Power Supply optional)	CACNS700-03-DC CAPS-730
Campus Star-RS Chassis. Available slots can support up to 14 Line Units, 14 Interface Modules, one CMU and two Power Supplies. One AC power supply and European cord (Spare Campus Star 100-240VAC Power Supply with European cord)	CACNS700-03-04 CAPS-720-4
Campus Star-RS Chassis. Available slots can support up to 14 Line Units, 14 Interface Modules, one CMU and two Power Supplies. One AC power supply and UK/Ireland cord (Spare Campus Star 100-240VAC Power Supply with UK/Ireland cord)	CACNS700-03-05 CAPS-720-5
Campus-Star Management Unit, including front panel controls/display, Telnet capabilities, and embedded SNMP agent	CACMU810-51
Blank Filler Panel Kit for Star Concentrator (Qty. 14 panels)	CABP-014
<b>Stargazer EMS.</b> Includes Windows and Solaris versions. Includes license for up to 10 Campus Star chassis, software and full user manual documentation set	SG-EMS-CS-BNDL-S
Stargazer EMS. Includes Windows and Solaris versions. Includes license for up to 50 Campus Star chassis, software and full user manual documentation set	SG-EMS-CS-BNDL-M
Full user documentation set for StarGazer for Campus EMS, and replacement software CD	SG-MEDIA-CS-BNDL



# Enterprise Solutions – Campus-RS™

Featuring a flexible, rate-selectable design, the Campus-RS family of products seamlessly accommodates a wide range of network interfaces and access speeds. The result is an innovative system that delivers high performance and cost savings by supporting a wide range of applications through a single platform solution. Campus-RS can be used for local area network (LAN) extension, remote data access, PBX networking, video conferencing and distance learning.



Campus-RS  
Rate-Selectable SDSL Systems

Wireline Service Delivery Products

9 / 0 4 • 1 2 9 4 5 7 4

## Ordering Information

Description	Catalog Number
<b>Network Interface Modules</b>	
DS1, with CSU/DSU for RS system	CADS1
DSX-1, with CSU/DSU for RS system	CADSX1
Multiport T1 (2 x serial ports w/DSX1) for RS system. Includes one 12" HD to female adapter	CAFLEX
G.703/75 Ohm (E1 rate only)	CAG703-75
G.703/120 Ohm (E1 rate only)	CAG703-120
Ethernet (10/100Base-T) 2w/4w	CAREX2
RS449 (n x 56/64kbps)	CARS-449
RS530 (n x 56/64kbps)	CARS-530
RS530A (n x 56/64kbps)	CARS-530A
V.35 (n x 56/64kbps)	CAV35
X.21/V.11 (n x 56/64kbps)	CAX21
<b>FLEX Network Interface Module and Cable Bundle</b>	
Multiport T1 (2 x serial ports w/DSX1) for RS system. Includes one 12" High-density (HD) to V.35 female adapter cable	CAFLEX-V35
Multiport T1 (2 x serial ports w/DSX1) for RS system. Includes one 12" High-density (HD) to RS-530 female adapter cable	CAFLEX-RS530
Multiport T1 (2 x serial ports w/DSX1) for RS system. Includes one 12" High-density (HD) to RS-449 female adapter cable	CAFLEX-RS449
Spare 12" High-density (HD) to V.35 female adapter cable for CAFLEX interface card*	CACHD-35
Spare 12" High-density (HD) to RS-449 female adapter cable for CAFLEX interface card*	CACHD-49
Spare 12" High-density (HD) to RS-530 female adapter cable for CAFLEX interface card*	CACHD-53
<b>Enclosure</b>	
Four slot 19" Rack Mount Enclosure for Campus-RS Standalone Units	CACEN604

\*CAFLEX interface module includes one adapter cable, with choice of adapter



# Enterprise Solutions – Megabit Modems

9 / 0 4 • 1 2 9 4 5 7 4 Wireline Service Delivery Products



Megabit Modems 410F, 420F



Megabit Modem 701G2



Megabit Modem 702G2

ADC's Megabit Modem products offer groups or individual users secure, high-speed connectivity to today's growing array of remote resources. Whether accessing the Internet, connecting remote network sites, or telecommuting, ADC has the right modem for your application and budget.

## Ordering Information

Description	Catalog Number
<b>Megabit Modems</b>	
2.048 Mbps symmetric modem with 10BASE-T Ethernet port. Frames over SDSL. May be used "point to point".	MM300S-X
Local ADSL modem, paired with the remote MM320F for "point to point" operation. Maximum 7.040 Mbps downstream and 928 Kbps upstream.	MM310F-X
Remote ADSL modem, paired with the remote MM310F for "point to point" operation. Maximum 7.040 Mbps downstream and 928 Kbps upstream.	MM320F-X
Local ADSL modem, paired with the remote MM420F for "point to point" operation. Maximum 7.552 Mbps downstream and 928 Kbps upstream.	MM410F-X
Remote ADSL modem, paired with the remote MM410F for "point to point" operation. Maximum 7.552 Mbps downstream and 928 Kbps upstream.	MM420F-X
<b>G.shdsl modem supports 2-wire G.shdsl at speeds up to 2.3 Mbps (1 pair copper).</b> Operates point-to-point or with DSLAM. Supports up to 256 users in PPP mode and up to 32 virtual circuits. For large LAN environments and business applications. Also supports RFC 1483 bridging and routing. ATM over G.SHDSL	MM701G2-00X
<b>G.shdsl modem supports 4-wire G.shdsl at speeds up to 4.6 Mbps as well as 2-wire at speeds up to 2.3 Mbps (2 pair/1 pair copper).</b> Operates point-to-point or with DSLAM. Supports up to 256 users in PPP mode and up to 8 virtual circuits. For large LAN environments and business applications. Also supports RFC 1483 bridging and routing. ATM over G.SHDSL	MM702G2-00X
19" modem shelf for Megabit Modems. Holds up to 10 Megabit Modems	MM6000
23" modem shelf for Megabit Modems. Holds up to 12 Megabit Modems	MM8000



# PG-FlexPlus Edge RAM ADSL Remote Access Multiplexer

The PG-FlexPlus Edge RAM is a line powered and environmentally hardened ADSL remote access multiplexer. It is designed to enable telephone companies (telcos) to offer ADSL service to users that live beyond 12kft from either the central office (CO) or DLC remote. With its line powering and outside plant friendly enclosure options (indoor/outdoor, wall, pole and pedestal mountings), the Edge RAM gives telephone operating companies unprecedented flexibility and speed of deployment to provide ADSL service in hard to reach and low take-rate areas.



PG-Flex<sup>plus</sup>  
Broadband Micro-DLC

Wireline Service Delivery Products  
9 / 0 4 • 1 2 9 4 5 7 4

## Ordering Information

Description	Catalog Number
<b>EDGE</b> PG-Flex <sup>plus</sup> Shelf DS3 Splitter Unit (upgrade for PCS-719 L1A)	ASU-945-L1
<b>PG-Flex<sup>plus</sup> Management Unit (Mgmt)</b> Management Unit (TL1 for POTS) SNMP Management Unit (EDGE)	PMU-712-L2 AMU-912-L1
<b>PG-Flex<sup>plus</sup> Central Office Multiplexer Unit (Mux)</b> ATM Multiplexer - DS3/DS1 ATM Multiplexer - DS1	AMX-944-L1 AMX-943-L1
<b>PG-Flex<sup>plus</sup> Central Office Line Unit (COLU)</b> ATM CO Line Unit	ALU-935-L1
<b>PG-Flex<sup>plus</sup> EDGE IAD Remote Terminals</b> EDGE IAD, Outdoor 3 POTS, Fully Protected EDGE IAD, Outdoor 3 POTS EDGE IAD, Indoor 3 POTS EDGE IAD, Outdoor 6 POTS, Fully Protected EDGE IAD, Outdoor 6 POTS EDGE IAD, Indoor 6 POTS	ARB-963-L1B ARB-963-L1C ARB-963-L1E ARB-964-L1B ARB-964-L1C ARB-964-L1E
<b>PG-Flex<sup>plus</sup> EDGE RAM Remote Terminals Enclosure</b> EDGE RAM Remote Terminal Enclosure	ARX-965-L1
<b>PG-Flex<sup>plus</sup> EDGE RAM Remote Terminal Line Unit (RAMLU)</b> EDGE RAM ATM Remote Line Unit	ARL-942-L1
<b>PG-Flex<sup>plus</sup> EDGE RAM Remote Terminal POTS Splitter Unit (RAMSU)</b> EDGE RAM Remote Splitter Unit	ASU-940-L1
<b>PG-Flex<sup>plus</sup> Optional Equipment</b> PG-Flex <sup>plus</sup> Field Shelf Fan Unit EDGE RAM RT Fan Replacement Unit	PCS-830-L1 AFU-960

# WIRELINE SERVICE DELIVERY PRODUCTS



**Web Site: [www.adc.com](http://www.adc.com)**

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