

Ethernet Network Interface Unit

Intelligent Ethernet Management Platform



For Ethernet services to fully deliver on the promise of lower costs and higher reliability, remote management of the network becomes essential—especially as subscriber numbers increase. Remote isolation of troubles and performance monitoring are minimum requirements for carrier-class Ethernet service.

Service providers can now create an intelligent Ethernet management platform with ADC's Ethernet Network Interface Unit (ENIU). Installed at the remote premises, the ENIU provides the demarcation point between the customer and carrier network. By providing the ability to sectionalize the network at the customer interface, the ENIU enables the carrier to remotely assess whether trouble conditions reside within the carrier or customer network.

Benefits:

- Saves operations time by limiting technician dispatch for troubleshooting and turn-up.
- Reduces network downtime through proactive network management via remote access for testing and performance monitoring.
- Enables quicker service restoration through single end testing of signal.
- Increases network availability by accelerating network trouble repair cycle.
- Easily integrates Ethernet network management into existing operations by mirroring current maintenance practices for DS1/DS3 architectures.
- Standards-based solution allows interoperability with switches, routers and test equipment.

Features:

- Supports in-band remote signal loopback for troubleshooting and testing as well as remote failure indications and link monitoring for checking service performance.
- Features UTP (RJ45) or SFP-based optical connections for customer and carrier interface.
- Loss of power "cut through" ensures that electrical signal integrity is maintained on RJ45 interfaces if power to the unit is lost.
- Configurable to 10Mbps or 100Mbps Ethernet or Gigabit Ethernet on carrier and customer demarcation sides.
- Bandwidth can be port limited in 1Mb increments.
- Includes enclosed carrier-side interfaces with LED performance indicators on the front of the unit.
- Fully compliant with IEEE 802.3ah™ First Mile standards for OAM.
- Accepts -48Vdc or AC power.

SPEC SHEET



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Ordering Information

Description	Ordering Number
Ethernet Network Interface Unit E/E ENIU, SET TOP 10/100/1000 MB UTP to 10/100/1000 MB UTP E/E ENIU, AC, SET TOP 10/100/1000 MB UTP to 10/100/1000 MB UTP E/O ENIU, SET TOP 10/100/1000 MB UTP to GE Optical (requires SFP) E/O ENIU, AC, SET TOP 10/100/1000 MB UTP to GE Optical (requires SFP) O/O ENIU, SET TOP GE Optical to GE Optical (requires 2 SFPs) O/O ENIU, AC, SET TOP GE Optical to GE Optical (requires 2 SFPs)	ENI-EGXXEGXX1B ENI-EGXXEGXX1B-AC ENI-OGXXEGXX1B ENI-OGXXEGXX1B-AC ENI-OGXXOGXX1B ENI-OGXXOGXX1B-AC

Specifications

POWER

Voltage	-48VDC, or 110 to 240VAC
Input Current	250 mA maximum
Fuse Size	1 Amp

ENVIRONMENTAL

Operating Conditions	+23°F to +122°F (-5°C to +50°C) 5% to 90% RH
Storage Conditions	-40°F to +185°F (-40°C to +85°C) 10% to 95% RH

MECHANICAL

Dimensions (DxWxH)	1.55" x 4.25" x 9.09" (3.94 cm x 10.8 cm x 23.1 cm)
Weight	1.8 lb. (0.81 kg.)

ELECTRICAL

Network Interface	RJ45
Network Data Rates	Configurable to 10Mbps, 100Mbps or 1000Mbps
Customer Interface	RJ45
Customer Data Rates	Configurable to 10Mbps, 100Mbps or 1000Mbps
Media Requirements:	10Mbps UTP Category 3, 4, 5 100Mbps UTP Category 5 1000Mbps UTP Category 5e
Distance	328 feet (100 meters)

OPTICAL

Network Interface	LX, SX, ZX SFP-based
Network Data Rates	Gigabit Ethernet
Customer Interface	LX, SX, ZX SFP-based
Customer Data Rates	Gigabit Ethernet

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Web Site: www.adc.com

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