



# ORiNOCO™ Active Ethernet

## Power-over-Ethernet

Active Ethernet is a new feature of the ORiNOCO™ product line that provides power-over-Ethernet (PoE) capabilities for the entire ORiNOCO family of enterprise, outdoor, and public area wireless networking equipment, including Access Points, Access Servers, and Outdoor Routers.

Active Ethernet eliminates the need for power blisters (ac-to-dc converters) and 110/220 V AC cabling installation. With Active Ethernet, system installers need to run only a single Ethernet cable—instead of separate power and data cables—to each Access Point base station, saving up to \$1,000 per installation.

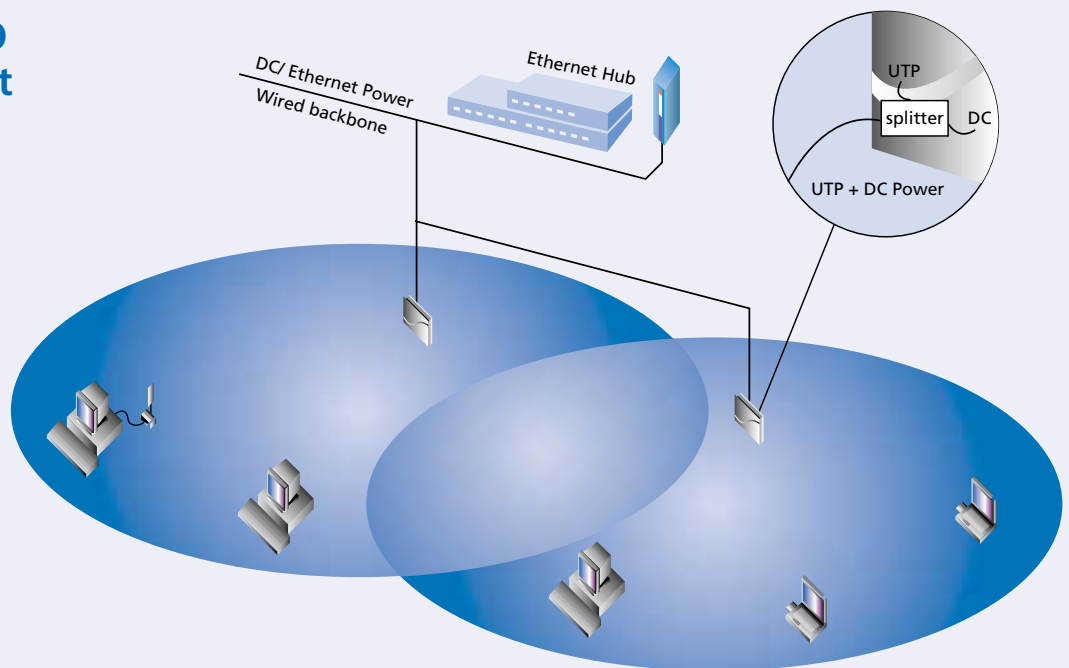
The Active Ethernet solution consists of a “power injector,” typically installed in the wiring closet, that “injects” the DC power onto the Ethernet cable. The Active Ethernet unit constantly checks the Ethernet cable for a device that can handle PoE. If it does not detect such a device, Active Ethernet switches off power for that port. This power-monitoring capability protects other devices connected to the Ethernet cable with power as well as the input port of the switch in case of an installation error.

The Active Ethernet power injector device is available in two models—one that can handle 12 ORiNOCO



infrastructure units and one for six units. The 12-port injector fits in a 19" rack slot; the 6-port injector fits in half that slot space.

### Basic ORiNOCO Active Ethernet



## ORiNOCO Active Ethernet (AE) Specifications

Features	<ul style="list-style-type: none"> <li>- Provides power to the infrastructure device over the Ethernet cable.</li> <li>- Remote power feeding – Access Point (AP)/Access Server (AS)/Outdoor Router (OR) receives power over the Ethernet cable.</li> <li>- Centralized power distribution – Multiple AP/AS/OR can be connected to a single AE.</li> <li>- Smart Ethernet wiring – AE acts as a normal patch panel and places ~48 VDC on unused Ethernet pins.</li> <li>- Automatic load sensing – Power control circuitry automatically detects an AP/AS/OR before providing power.</li> </ul>
Ethernet Interface	<ul style="list-style-type: none"> <li>- Input (Data In): 6 (or 12) ports; Ethernet 10/100 Mbps RJ 45 female socket</li> <li>- Output (Data and Power Out): 6 (or 12) ports; Ethernet 10/100 Mbps, plus ~48 VDC RJ 45 female socket, with DC voltage on wire pairs 7-8 and 4-5</li> </ul>
Serial Port Interface	
Connector Type	DB9 Serial Data Monitor port
Uses	Factory Test Only
Physical Specification	
Dimensions (HxWxL)	6-port = 215 x 44 x 335 mm 12-port = 440 x 66 x 301 mm
Weight	6-port = 1.5 Kg 12-port = 3.2 Kg
Temperature	
Operating	0 - 55 °C 10 - 90% humidity, no condensation allowed
Storage:	-20 - 70 °C 10 - 90% humidity, no condensation allowed
Electrical Specifications	
Input Voltage	90 - 264 VAC (47-63 Hz)
Input Current at 110 VAC	3.6 Amperes
Total Power Consumption, Continuous, 6 ports at full load	225 Watts
Output Power, per Port	15 Watts
Nominal Output Voltage, per Port	42 - 52 VDC
Warranty term	metal enclosure; 19 inch rack mount 1 year
Comcodes	
848 611 174	12-port DC injector (US/CAN/JP power cord)
848 611 182	12-port DC injector (Europe power cord)
848 611 190	12-port DC injector (Australia power cord)
848 611 208	12-port DC injector (UK power cord)
848 611 216	6-port DC injector (US/CAN/JP power cord)
848 611 224	6-port DC injector (Europe power cord)
848 611 232	6-port DC injector (Australia power cord)
848 611 265	6-port DC injector (UK power cord)
848 613 857	Splitter (for WavePOINT®-II, AP-1000, ROR/COR; OR-1x00 and AS-2000)



For additional information, please contact your Lucent Technologies Sales Representative.

You can also visit our web site at <http://www.lucnet.com> or call 1-800-928-3526.

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