

CC-815

Delivering Intelligent Ethernet Demarcation to Today's Networks



CC-815 PRODUCT FEATURES

- Flexible demarcation device extends Ethernet reach and aggregates LAN traffic for transport over the WAN
- Supports multi-customer or multi-service applications with 5 Ethernet service interfaces—(4) 10/100BT & (1) GbE
- Interoperates with a wide variety of data switching, routing, aggregation and transport products
- Supports back-to-back, stand-alone and CC-16000 based applications
- Rich set of VLAN capabilities to separate & prioritize each service or Ethernet Virtual Circuit (EVC)
- 10/100BT to GbE application provides stand-alone Ethernet demarcation to unmonitored Ethernet transport systems
- SFP connector supports a wide range of optical applications (optional bi-directional transmission w/CWDM) minimizes fiber count
- Transparent and QoS based Ethernet services
- Etherjack® demarcation function to verify SLA performance—includes both NID/NTE & UNI
- Advanced Etherjack Connection Performance Analyzer capability simplifies test and turn-up—reduces truck rolls
- In-band and out-of-band options for remote management (HTTPS/GUI and SNMP)
- Desk, rack or wall mounting options

Covaro Network's CC-815 provides Ethernet demarcation, aggregation and media conversion for carrier's offering intelligent Ethernet services.

The customer located equipment is ideal for WAN to LAN connections between a carrier and a customer and can replace expensive layer 2 switches or routers that are sometimes used in this demarcation application.

Small form-factor pluggable (SFP) optics on both the WAN and LAN ports address a wide range of GbE optical applications, reaches and media conversions including SX, LX, ZX and BX. In addition, electrical ports are also available on the GbE WAN and LAN ports to support copper Ethernet applications.

Individual customers and services are separated within the WAN utilizing a sophisticated UNI function that includes support for VLANs and Ethernet virtual circuits (EVCs). All the customer interfaces incorporate Covaro's unique Etherjack demarcation technology to simplify the remote operations of the service, while providing service differentiation.

ETHERJACK®

Covaro's patent pending Etherjack® technology allows a carrier to deploy profitable Ethernet services by providing the industry's first intelligent Ethernet demarcation point which includes an 802.3ah (EFM) aligned Network Interface Device (NID) or Network Termination Equipment (NTE) for OAM functionality plus an MEF aligned User Network Interface (UNI) for providing advanced services definition. The Etherjack® NID includes: cable integrity testing, Etherjack® Connection Performance Analyzer (ECPA) along with port level and VLAN level loopbacks to enable a carrier to remotely diagnose faults and verify Ethernet Virtual Connection (EVC) SLA conformance using RFC-2544 test suites. In addition, it provides in-service monitoring on both sides of the demarcation point which is critical for debugging issues with rate limited services. The Etherjack® service UNI provides service intelligence necessary for defining CIR, PIR and burst size of individual ports, priorities or VLANs. It uses 802.1p, 802.1q, TOS or DSCP to classify traffic into EVCs, VLANs or priority level. Covaro's unique demarcation function enables carriers to provide differentiated profitable Ethernet services.

Covaro's patent pending Etherjack® functionality allows carriers to deploy profitable Ethernet services today.

SPECIFICATIONS

NETWORK INTERFACE (WAN)

- 10/100/1000BT
 - Auto MDIX
 - Connector: RJ-45

OR

- 1000 SX/LX/ZX/BX
 - Optional SFP types
 - Connector: SFP

SERVICE INTERFACES (LAN)

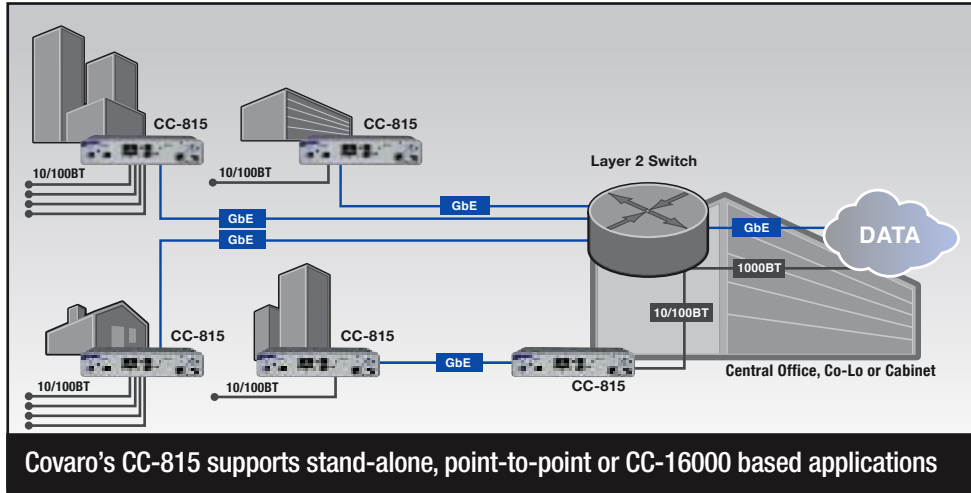
- (4) 10/100BT
 - Auto negotiation
 - Auto MDIX
 - Connector: RJ-45
- (1) GbE (optical or electrical)
 - Connector: RJ-45 for electrical, SFP for optics

DATA SERVICES

- CIR/PIR/Burstsize on port, VLAN or priority basis
- Port, VLAN and priority rate limiting on 1M increments
- Traffic classification/priority based on TOS/DSCP/802.1P/802.1Q
- Low latency handling of VOIP/video services
- 802.1Q VLAN: forwarding, swapping, stacking (802.1Q-in-Q)
- 802.3x (pause)

MANAGEMENT

- HTTPS/GUI and SNMPv1, v2c, v3
- Management Tunnels for remote management
- Serial and Ethernet ports for local management
- IP Routing (Static, RIP)
- Database backup and restore
- Auto provisioning
- Connectors: 10/100BT Ethernet RJ-45, Serial RJ-48
- DHCP



ETHERJACK® DEMARCATION

- EFM (802.3ah) aligned NID for OAM
 - Port and VLAN level loopbacks
 - ECPA test suite generator and analyzer (RFC-2544)
 - Cable integrity test for customer premise
 - Fault propagation for remote visibility of failures
 - Dying gasp message for power failures
- MEF UNI for advanced service definition
 - CIR, PIR & burstsize for port, flow and priority
 - RMON Etherstats and extensions for monitoring both sides of demarcation point

SOFTWARE UPGRADE

- HTTPS via web interface

PHYSICAL

- 1.75" H x 8.5" W x 10" D
- Mounting: wall, rack or desk

ENVIRONMENTAL

- Operating: 0 to +50° C.
- Storage: -40° to +70° C.
- Humidity: 5-95%, non-condensing

POWER

- 120 – 240VAC, 50-60HZ
- 48VDC
- 12VDC

REGULATORY

- UL/cUL/EN 60950
- FCC Part 15, Class B
- Industry Canada CS-03
- CISPR
- CE Mark
- VCCI
- TUV
- AS/NZS



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