ECX Edge Indoor CMTS
ECX-520A Series

Description

The Electroline ECX Edge CMTS addresses the need for bi-directional broadband digital services in high-density environments such as in-building coverage or localized neighborhoods by extending the fiber to the edge of the specific service area, and connecting it to the ECX CMTS as the local gateway. Making it the ultimate 'coaxial last mile' solution!

It is compliant to DOCSIS 3.0 and C-DOCSIS. It is available in Euro-DOCSIS and backward compatible to previous version of DOCSIS and Euro-DOCSIS 2.0/1.x compliant modems.

Application

- Ethernet Distribution using CATV coax
- MDU's (Multi Dwelling Units)
- Institutional Networks
- Private Cable Networks
- Hospitality Networks
- Mining Industries

The ECX Edge CMTS is ideally suited in instances where there is a legacy coaxial infrastructure in place or the deployment of a coaxial network is the only cost effective technical alternative for transporting IP traffic.

Its high bandwidth capability in both upstream (**US**) and downstream (**DS**) will transport effortlessly IP based video, voice, and data traffic. This is augmented with a QoS policy based on defined service flows to ensure applications with latencies, high prioritization, fixed and bursty data rate packets etc… are accommodated accordingly to avoid congestions that can compromise throughput and performance.

ECX can be management by CLI with Telnet and Web interface.

Indoor 1RU CMTS

Features

- Compliant with DOCSIS3.0/Euro-DOCSIS3.0/C-DOCSIS standards.

- Supports 1000 cable modem (CPE) online

- DS×32, can be easily configured to 64/256/1024QAM modulation mode with a maximum data rate of 2Gbps@1024QAM.

- US×8, can be easily configured to QPSK/3~8 order QAM modulation mode, with maximum data rate of 320Mbps@256QAM.

- Supports layer 3 routing, static route, policy route, VLAN, L2VPN, ACL etc.

- Built-in DHCP/TFTP/ToD server, supports for DHCP relay, and multiple subnets under CPE. Option 82/60 supported.

- 1 Gb RJ45 port and Optical SFP data port to connect to WAN

- Load balancing

- Supports IPv6, multicast, remote-query, Flap (DOCSIS signal quality jitter diagnosis).

- Management by CLI with Telnet and Web Interface.

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Specifications

	DN Stream		UP Stream			
	Euro-DOCSIS 3.0	DOCSIS 3.0	ATDMA/S-CDMA			
Modulation Mode	64/256/1024QAM*		8~256QAM/QPSK			
Frequency Range (MHz)	108~1002/1218	88~1002/1218	5~85/65			
Channel Bandwidth (MHz)	8	6	Single Channel Bandwidth (MHz)	6.4	3.2	1.6
Bonding Channel Quantity	32		8			
Max. Total Data Rate (Mbps)	2000	1600	320			
Single Channel Data Rate (Mbps) — 64QAM	41	27	256QAM	40.96	20.48	10.24
			128QAM	35.84	17.92	8.96
Single Channel Data Rate (Mbps) — 256QAM	55	38	64QAM	30.72	15.36	7.68
			32QAM	25.60	12.80	6.40
Single Channel Data Rate (Mbps) — 1024QAM*	69	53	16QAM	20.48	10.24	5.12
			8QAM	15.36	7.68	3.84
Single Channel Symbol Rate (Msymps) — 64QAM	6.952	5.056941	QPSK	10.24	5.12	2.56
Single Channel Symbol Rate (Msymps) — 256QAM	6.952	5.360537	Single Channel Symbol Rate (Msymps)	5.12	2.56	1.28
Single Channel Symbol Rate (Msymps) — 1024QAM*	6.952	5.360537				
Output Level (dBmV)	20 ~ 45 (1dB step)		Receive Level (dBmV)	-13 ~ +23		
RF Port	F type Socket (Imperial)		F type Socket (Imperial)			
Return Loss	> 12dB		> 14dB			
Output Impedance	75Ω		Input Imedance	75Ω		
WAN Port — Optical	1.25G SFP ; 10G SFP+		Uplink Data Rate	1Gbps		
WAN Port — Electronic	1000/100/10Base-T		Console	1 RJ45		
Management Methods	CLI: after log in by telnet; NMS: based SNMP from third party; Embedded Web: by remote log in.					
Supported Protocols	Euro-DOCSIS/DOCSIS3.0/2.0, C-DOCSIS, TCP/IP, ARP, L2VPN, ICMP, ACL, VLAN, Multicast, DHCP-relay, SNMP, etc.					
Input Voltage	AC100~240V, 50/60Hz		Power consumption	< 40W		
Status Display	LED		Failure Warming	LED Flashing		
Cooling Way	40mm Fan × 2		Working Environment	Temp: -25℃ ~55℃ Humidity: <90%		
Net Weight	3 Kg		Dimensions	440 × 285 x 45 mm		

*Specifications are subject to change without notice.

For more information on our products, please visit: www.electroline.com or call: 800-461-3344