C3VoIP-150 Gateway

VERTICAL MARKETS AND SOLUTIONS

WIRELESS SERVICE PROVIDERS (WISPS)

VOICE SERVICE PROVIDERS

TELEPHONE OPERATORS

ENTERPRISES

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Service Providers, Telephone Operators and Enterprises seek a reliable solution that provides high quality and cost-effective Voice over Internet Protocol (VoIP) service for their end users. The C3VoIP-150 Gateway provides wireless broadband connectivity and high quality voice delivery for residential and enterprise customers using existing analog equipment. This device allows companies to protect their investments in legacy equipment and migrate cost-effectively to feature-rich VoIP services.

Using wireless broadband platforms from Cambium Networks, the C3VoIP-150 delivers next generation managed VoIP service. This includes all the quality and reliability benefits of traditional phone service as well as a wide variety of many new and exciting VoIP telephony applications. Providers will benefit from an enhanced and reliable broadband technology, allowing both businesses and residential customers to seamlessly merge their analog phones with the modern IP network.

Main Differentiators

» **QUALITY OF SERVICE (QOS)** available on C3VoIP-150 and compatible Cambium Networks Point-to-Multipoint (PMP) platforms ensures the highest priority level for voice transmission. This capability allows providers to confidently offer high quality and reliable VoIP services to customers with existing analog equipment.

» **PROVEN COMPATIBILITY** between C3VoIP-150 and Cambium Networks PMP platforms allows providers to quickly integrate all necessary equipment. Configuration and management is straightforward due to the PoE connection with a Cambium Networks remote module. Customers can begin to improve revenue margins immediately.

» **COMPLETE SOLUTION** provided by Cambium Networks offers one turn-key platform with easy ordering and committed technical support.

Powerful Features

The C3VoIP-150 Gateway from Cambium Networks combines quality, reliability and innovation to support VoIP service with a powerful array of features.

Easy setup that connects the power source through the WAN port for PMP 450 and ePMP™ Remote Modules allows for simple integration with the wireless broadband network.

Two voice ports support multiple phone lines connecting the legacy telephones to IP-based networks.

Secure and automated provisioning using HTTP/HTTPS/TFTP allows secured flexible configuration and provisioning options.

Dynamic network monitoring reduces jitter artifacts such as packet loss to offer clear, natural-sounding voice quality.

Advanced call features including 3-way conference, call hold and call forwarding to enable users to enjoy the advantages of the modern IP network.

Comprehensive voice codecs support G.711, G.722, G.723 & G.729A/B that allow providers to be compatible with different VoIP platforms.

Specifications

PRODUCT	
MODEL NUMBER	N000000L020A, N000000L022A

INTERFACE	
TELEPHONE INTERFACES	2 FXS ports, RJ11
NETWORK INTERFACES	1 RADIO port, 10/100BaseT, RJ45 1 LAN port, 10/100BaseT, RJ45
CAMBIUM PROPRIETARY POE	Supported at RADIO port for Cambium PMP450 and ePMP Remote Module
RESET BUTTON	Factory reset button
LED INDICATOR	Phone1, phone2, LAN, RADIO and power

NETWORK	
PROTOCOL	DHCP/ PPPoE/ Static IP, PPTP/L2TP VPN Dynamic DNS/DNS SRV (RFC 1706 and RFC 2782), DMZ NAT Traversal (Static NAT Route or by STUN) DHCP Client and DHCP server MAC address Clone, IP Conflict Detection
ROUTE MODE	Route/Bridge, customer configurable
QUALITY OF SERVICE	Support IEEE 802.1Q VLAN/802.1p Layer 3 (DSCP) settings for SIP, RTP and Data

CALL FEATURES	
IP SIGNALING	SIP V2 (RFC3261/3262)
VOICE CODEC	G.711 (A-law, μ-law), G.722, G.723 and G.729 A/AB Codes
FAX OVER IP	T.38 Compliant / G.711
VOICE FEATURES	Adaptive jitter buffer management Voice Activity Detection Comfort Noise Generation Echo Cancellation
COMPLEMENTARY FEATURES	3-way Conference, Call hold, Call forwarding, Call transfer, Call waiting, Speed dial, Hotline, Dial plan, Caller ID, Black list, Call log

MANAGEMENT	
CONFIGURATION	Web GUI interface, Interactive Voice Response (IVR)
AUTO PROVISIONING	TFTP, HTTP, and HTTPS
SNMP	SNMP v2
TIME SYNCHRONIZATION	SNTP
MULTI USER LEVEL	Administrator and User
PROTOCOL	TR069
SYSLOG	Local

POWER SUPPLY	
DC INPUT	12VDC @2.0A maximum
POWER CONSUMPTION	18 Watts - typical
AC/DC ADPATOR	AC INPUT: 100 ~240V, 50-60 Hz DC OUTPUT: 12V, 2A

ENVIRONMENTAL	
OPERATION TEMPERATURE	0°C to +45°C
STORAGE TEMPERATURE	-25°C to +85°C
RELATIVE HUMIDITY	5% to 90%, non-condensing
WEIGHT	182 g (6.4 Oz)
DIMENSION (H X W X D)	153 x 120 x 30 mm (6 x 4.6 x 1.2 inch)

REGULATORY	
REGULATORY COMPLIANCE	FCC Part 15B Class B, EN55022, EN55024, EN61000-3-2, EN61000-3-3, CE, RoHS
SAFETY	IEC 60950-1, UL 60950-1, EN 60950-1