

# CLOUD VTX-WMI WEB MONITOR CARD

#### SURVEILLANCE OPTION FOR VTX SERIES AMPLIFIERS





### General Description

The VTX-WMI Web Monitor Card is a retrofittable option for Cloud's new VTX power amplifiers. It allows the amplifier's performance and settings to be monitored at a remote location using any computer (or PDA, smartphone, etc.), via a standard Internet browser. No dedicated software application or PC hardware is necessary.The card plugs into a reserved slot on the amplifier's rear panel, and is fitted with an RJ45 Ethernet interface using regular network protocols.The data rate used is very low, which allows the building's existing IT infrastructure to be used instead of a dedicated network. Amplifiers are simply connected into the IT system at the nearest convenient point. Where multiple amplifiers are co-located (e.g., in a rack), an Ethernet switch, with the appropriate number of ports, may be used to facilitate connection.

The web browser GUI is simple and intuitive, and the data clearly presented.A set of tabbed pages is displayed, which report the details and performance of all the amplifiers on the network. Parameters monitored include: network connection status, the settings of all amplifier rear panel switches and gain controls, protection circuitry activity, internal temperature, power status and input signal level for each channel. Fan operation and RL-1 remote volume control setting (if fitted) are also confirmed. A load impedance test is available to check the integrity of each

Back panel detail showing position of card slot

A load impedance test is available to check the integrity of each channel's loudspeaker(s) and cabling. This test may be run either manually (i.e., initiated from the GUI as required), or automatically at pre-determined times and intervals – usually during periods of non-occupancy. The frequency used for the impedance test is also programmable.

A password protected 'Housekeeping' page is provided which allows site-wide details of the installation to be entered. This page also allows the load impedance test parameters, IP addresses and other system settings to be configured.

A real-time clock runs independently of the amplifier power supply, and an event log is maintained, which can be inspected as required for investigative purposes in the event of system problems. The system can also be configured to generate an email report if the WMI detects a fault condition. The report may be formatted as SMS text if required. (This assumes that the necessary Internet connection and email/mobile accounts are available.)

- Optional Ethernet interface for Cloud VTX power amplifiers, allows remote monitoring of amplifier status from any computer, anywhere
- Operates with standard web browsers no dedicated software necessary
- Uses standard network protocols
- Low data rates mean that existing IT infrastructure can be used - no dedicated network necessary
- Simple and intuitive user interface

- Easy to set up
- Monitors internal temperature, signal level, protection circuitry and fans
- Confirms all amplifier rear panel control settings
- Checks load impedance on demand, or at scheduled times, using user-defined frequency
- · Real-time clock for event logging and test scheduling
- Automatic email or SMS text alert on pre-defined fault condition



#### GUI pages

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Home Page



Properties



loud Stereo speaker array Product Monitor and Control CloudNET Config Contact Us Left Array - VTX4120 ad Test Temperature Fan speed Protect State Signal HPF Bridged Linked Level Control Remote Level × × × × × × ОK 65 Celsius NORMA Non -10dB 0d1 -90dB -90dB 65 Celsius NORM None 4 OK 🕚 65 Gelsius 🔍 NORMAL None -10dBu OdB -90dB Config options relate to rear panel contro Monitors relate to internal sensors Approaching threat × Option not selec Option sele © 2010 Cloud Bectronics Version 5.2 AJAX

Details

CloudNET network overview



## System Example

The diagram shows three racks of VTX amplifiers, with five amplifiers per rack. A standard Ethernet switch is installed in each rack, to which the VTX-WMI card in each amplifier is connected, one amplifier per port. The switches, in turn, are connected into the building's IT infrastructure. Amplifier status may be viewed from any computer, anywhere in the network, as long as the operator has the necessary login privileges.



#### **Technical Specifications**

#### Tone Generator

Level	40 dB below max amp output	Injected post level controls, other channels muted.
Frequency range	60 Hz to 20 kHz in 1/3-octave steps	
Signal detector		
Sensitivity	-30 dBu to +10 dBu	20 Hz to 20 kHz
Networking		
DHCP	Not supported	
Data rates	100 Base T	
Connector	RJ45	