



CrossNET

Server appliance for ViaNET solutions



ViaNET applications:

- CCTV/Video in metros and trams
- Passenger information systems
- Remote control solutions
- Security signaling
- VOIP and telemetry in vehicles
- IP data transport to/from train-to-track connections
- IP multimedia services
- LANs (Local Area Networks) in mobile vehicles

CrossNET features:

- Gateway to ViaNET network
- ViaNET network management
- Backhaul data processing
- Backbone test tools
- DebugMT-Mobile terminal troubleshooting and diagnostic

Wireless backhaul for Vehicular applications

New technologies like VOIP, Wi-Fi, passenger information systems and CCTV cameras are increasingly deployed into vehicles and transport systems. These applications require new type of backhaul technology. Airspan has developed a network solution targeted to this market. Vehicle based network solutions are in the core of rapidly growing intelligent transport system (ITS) markets

ViaNET extends LANs (Local Area Networks) and their applications to vehicles and transit systems. It works as transparent backhaul connection between vehicles and network operating center (NOC). Vehicles are continuously on the move, requiring mobility and handover of connections between base stations.

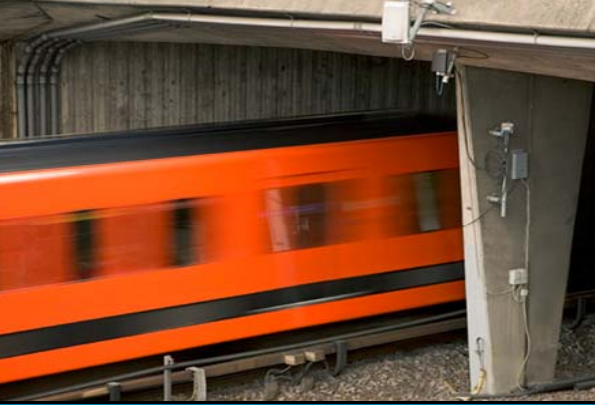
Customers are using ViaNET in automation of industrial processes and deployment of advanced security services. Many ViaNET applications are operated on continuous basis 24/7, through the year.

CrossNET server

CrossNET server is an element management system (EMS) for ViaNET network. It works as an active network element. CrossNET is used for processing data traffic, configuring ViaNET access points and mobile terminals and monitoring of the network.

CrossNET server is an appliance based network device, which integrates benefits of preinstalled software with standardized hardware components. CrossNET software is preinstalled to the server, when delivered to customer. This saves time in installation and commissioning work.





Technical Specifications



Product Features	
Application areas:	Wireless backhaul solutions for vehicular environments
Equipment type:	ViaNET network server and gateway device
Main processor:	Intel Core 2 E6700, 1.86 GHz, Single CPU
Operating system:	Linux Centos 4.3 based custom OS, with GNOME desktop
User interface:	WEB GUI (http, https), SSH2 CLI
Diagnostic LEDs in front panel:	Power, HDD activity, NIC 1(LAN1), NIC2 (LAN2), Overheating alarm
Memory and storage:	2 GB DDR2 RAM, 80 GB hard disk drive with RAID support
Network management	
	<ul style="list-style-type: none"> Multiple administrative classes Centralised web based (HTTPS) management for access points and mobile terminals AP/MT monitoring AP/MT configuration Access point test & troubleshooting tools DebugMT-Visual monitoring for wireless backbone connection diagnostics Radio signal and handover time statistics
Security and availability	
	<ul style="list-style-type: none"> Username/password, multiple admin classes Optional high availability version (2 servers, hot standby configuration)
Networking	
	<ul style="list-style-type: none"> Receiving and forwarding of ViaNET data traffic Data packet tunnel encapsulation Transparent bridging VLAN/IPSEC traffic passthrough Gateway IP settings
Environmental Specifications	
	<ul style="list-style-type: none"> Operating temperature 10- 35° C (50° to 95° F) Humidity range 8-90 % non-condensing
Electrical Specifications/Compliance	
	<ul style="list-style-type: none"> Power consumption 260 W, Thermally controlled AC power supply, AC 110-240 V, 50-60 Hz, Max power consumption 4 A, 1*100 mm 5000 RPM Blower fan EN/IEC 60950, UL 60950, CSA 60950, EN55022/CISPR 22, US47 CFR Part 15, EN 55024, CISPR 24, EN6100-3-2/EN61000-3-3
Mechanical & Electrical Specifications	
	<ul style="list-style-type: none"> 2 * Ethernet Interfaces(10/100 /1000 Base Tx), 2 *USB 2.0, 2* 3,5" internal drive bay, 1 I/O expansion slot, power switch, 426mm x 43mm x 356mm (W & H & D), weight 6 kg,

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