

ViaNET - Heavy Industry WLAN Solution

ViaNET series products enable wireless broadband data backhauls in mobile urban transit environments such as metros, subways and other kinds of transit systems.

The unique features of this heavy industry WLAN system ensure zero hand-over time which makes it useful in networks running applications that demand fast response times and robust infrastructure. ViaNET series access points and mobile terminals are carrier grade products, and they are guaranteed to work under demanding environmental conditions. The ViaNET networking system is designed for the building of communication networks for subway trains and security networks in tunnels. The system can also be used for connection critical applications to serve local service organisations like police, fire brigade etc.

ViaNET Heavy Industrial Unit



Antennas, 90°, 10dBi and 30°, 14dBi

ViaNET Series Access Points and Mobile Terminals

ViaNET series access points and terminals are built by using components that are specified for industrial use and are protected by a stainless steel case that fulfils the IP 66 specification. All connectors are carefully selected to withstand the harsh environment that can be found in harbours, tunnels etc. Radio units are equipped with two Ethernet

connectors and two radios. Each radio has two antenna connectors to be used for antenna diversity solutions. ViaNET radio units are used with ruggedised industrial antennas.

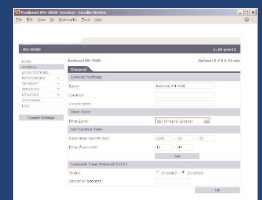
ViaNET System Solution

ViaNET heavy industry WLAN solution is built using special access points, mobile terminals and mobile terminal server. The Mobile Terminals are used as clients installed in mobile vehicles such as subway trains or cars. Mobile Terminals are connected to ViaNET access points with wireless radio traffic. Traffic from Mobile

Terminals is terminated at Mobile Terminal Server that provides control and monitoring of communication traffic. ViaNET series solution provides high performance wireless bridging architecture based solutions.

ViaNET System Solution

- Enable new applications with uninterrupted mobile broadband backhaul connection
- Redundant wireless data link connections
- High speed hand off between Wi-Fi access points
- Make before break capability across the network
- Proven reliability in harsh conditions
- Transparent wireless bridging



Easy to use, web browser based configuration

Technical Specification

Radio Technology

Application area:	Wireless mobile broadband backhaul applications, urban transit systems
Radio and modulation type:	IEEE 802.11b (DSSS), IEEE 802.11g (OFDM)
Number of radio units:	2
Frequency band:	2.400-2.4835 Ghz
Channels:	13 (ETSI)
Transmit power:	0, 7, 10, 13, or 16 dBm at antenna port (adjustable)
Data transfer rates:	1, 2, 5.5, 11 and 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Sensitivity:	-91, -89, -87, -85 and -88, -87, -86, -85, -82, -78, -73, -69dBm
Antenna:	No integrated antenna, Used with external antennas Access point: Heavy Duty Industrial, Access Antenna, 30°, 14dBi Mobile Terminal: Heavy duty industrial Client Antenna, 90°, 10 dBi

Management

Wireless, Ethernet
Web based (HTTP, HTTPS)
Encrypted (SSH2) command-line interface
Multiple administrative classes
Centralised web based (HTTPS) management via Mobile Terminal Server
UserID/Password authentication
SNMP v2c, MIB II, traps
Remote software and settings update

Security

WPA-PSK AES or WEP

Networking

Bridging
Traffic prioritization

Mechanical & Electrical Specifications

Interfaces:	2 * Ethernet Interfaces(10/100 Base Tx), 4 * N-Connectors, Outdoor rated connector for external power supply
Physical dimensions:	190mm x 344mm x 79mm (W & H & D), weight 4 kg
Mounting:	Brackets included for poles up to Ø65mm

Environmental Specifications

10...90% relative humidity (non-condensing) -40°C to +70°C, IP66

Standards Compliance

IEEE 802.11 b/g, IEEE 802.3, EN 300 328, EN 301 489: 1 & 17, EN60950
EC 60068-2-1, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-52, IEC 60068-2-64

Power consumption max 33W, 12-30VDC, outdoor proof power supply included 110 - 240VAC in, 24VDC out



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