Netronics®

Company Profile

Let's be realistic...
Ask for the impossible!

Netronics Technologies is a leading provider of networking and communications equipment based in Ontario, Canada. Our product portfolio consists of data and voice communications and networking equipment based on the latest radio, laser and wireless communication technologies.

Since 1996, Netronics Communications, a subsidiary of Netronics Technologies, have provided its market with high quality and highly reliable carrier class equipment serving the different market sectors from large government organizations, to enterprises in oil and gas and banking sector, to telecom service providers, and down to small Internet service providers.

Netronics is a one stop shop for wireless communications and voice/data transmission equipment needed for today's bandwidth thirsty market.

Netronics has successfully leveraged its technical knowledge in provision of connectivity to urban and rural areas in many developing countries, where wireless communications is the most suitable type of connectivity solution.

Our rich portfolio includes the performance leading NetAxis, the high performance microwave backhauling solutions in 6 to 38 GHz licensed frequencies. The most complete set of supported frequencies, , full Ethernet capacity out of the box, and attractive price per bit ratio have turned NetAxis into a suitable solution for different applications.

NetStream product family of TDM native synchronous wireless links can transfer TDM traffic like E1 and T1 lines along with IP traffic with a well matured, robust and extremely reliable set of radio equipment. The wide range of products in this family ensures we can offer a suitable carrier class product for every application and every budget.

NetAstra product family of point to multipoint wireless networking solutions offers base stations with one of the highest sector capacities in the industry. A wide range of subscriber units in different capacities have provided the flexibility needed for a cost efficient point to multipoint design.

Using NetPoint Pro series, outdoor coverage for connectivity with high population of WiFi users can be provided. NetPoint Pro is a super access point with multiple radio/multiple beam functionality equipped with a market leading beam forming technology.

NetPrecis is another member of Netronics radio networking product set offering hgih capacity and ultra long range links for point to point connectivity in rural and remote locations. It can offer ranges up to 250 km and can reach a total capacity of 65 Mbps.

NetFortis is the product line designed for radio connectivity of SCADA, remote monitoring and control application in different industries. With its ruggedized enclosure and wide operational temperature range NetFortis is the ideal radio connectivity solution in oil/gas, power and utility, traffic control and many other applications.

NetGlide offers a unique technology for indoor WiFi coverage solving the well known microcell problem for indoor coverage in large and crowded buildings. NetGlide improves the user experience with WiFi systems by covering the whole building with a single WiFi blanket.

Netronics wireless communications solutions have been tested in different environmental conditions from very cold to extremely hot weather and have provided the performance, reliability and durability that is second to no one in the industry.

Products

Point to point (Sub 6 GHz)

NetStream series is among the handful of solutions in wireless industry providing TDM native links capable of transferring up to 16 E1/T1 lines over wireless links with no conversion to IP protocol and while preserving the clock.

This provides excellently low latency and makes it possible to cascade links for intercity links and nationwide networks in the order of tens of cascaded links.

High Capacity, Point to Multipoint connectivity suite

NetAstra is a high capacity point to multipoint wireless networking solution offering 200 Mbps per sector throughput delivered to up to 16 sub stations. Thanks to its proprietary air frame, NetAstra precisely schedules the time slots allocated to each SU preventing the contention between the SUs for bandwidth.

Point to point (6 to 38 GHz)

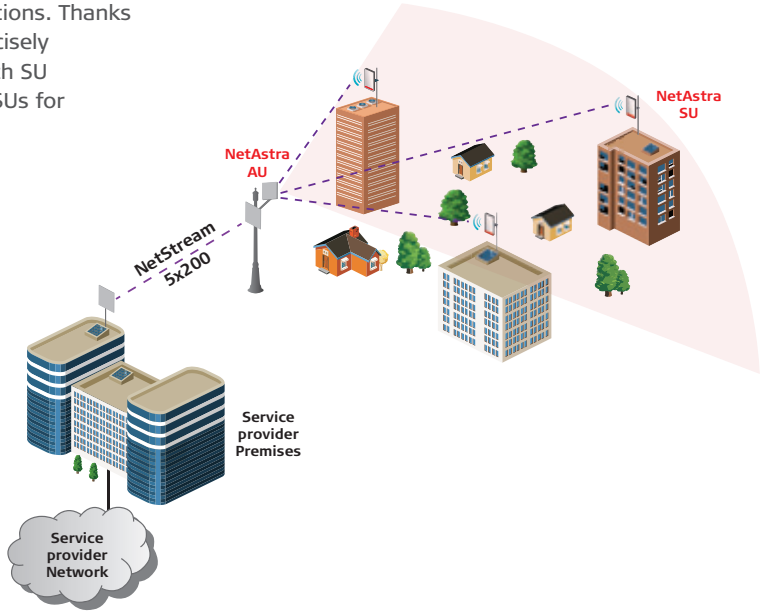
NetAxis series included high performance and high availability backhaul links carrying capacities up to 1.3 Gbps full duplex data and up to 16 x E1 lines. A wide range of carrier class features including redundancy, diversity, high RF power and traffic shaping features has made NetAxis the ideal choice for long haul high capacity data and voice super highways.

Long Range Point-to-Point Links

The Netronics NetPrecis point-to-point back haul radio provides robust wireless transmission of Internet, voice and data traffic over distances of up to 250 kilometers.

NetPrecis links are engineered to achieve 'five 9s' availability, benefiting from state of the art forward error correction and inherent low latencies, for unrivalled quality of service.

NetPercis hardware is extremely reliable and can perform in the harshest and most remote environments.

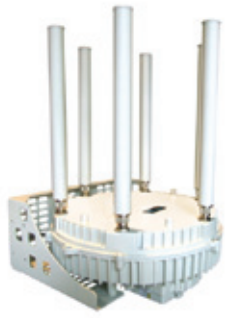





Outdoor WiFi Coverage

NetPoint Pro super access point product family offers a robust, high capacity and scalable solution for outdoor coverage in a city wide network with exceptional coverage quality. NetPoint Pro is using 802.11 a/b/g/n protocol, beam forming, MIMO and SDMA technologies to enhance its performance and connection reliability.

This all has resulted a series of WiFi access points with uniquely superior characteristics in terms of distance, capacity and Near Line Of Site (NLOS) and LOS performance to address the exponentially growing demand.




Radio Connectivity for SCADA

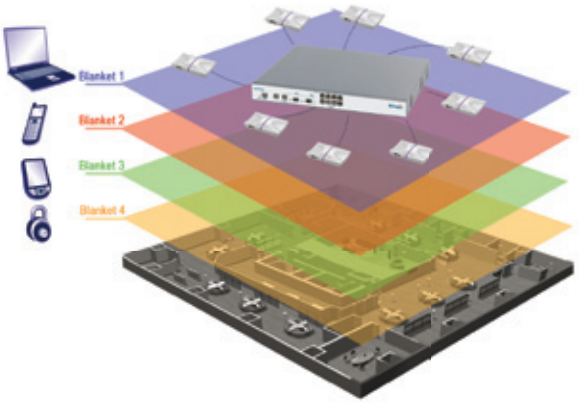
NetFortis is a secure, robust and dependable platform providing radio connectivity for SCADA systems widely used in oil and gas, electricity and power utility, water supply and many other industries requiring remote data accusation and control.

NetFortis offers a migration path for industries using the previous generation of serial based connectivity to the new generation of IP based monitoring and control systems, as it supports both platforms.

Unified Indoor WiFi Coverage

NetGlide offers a unique and revolutionary channel blanket technology, makes it possible to achieve a new generation of business-class wireless infrastructure scaling from a single office to multi-building corporate campuses. NetGlide provides the only truly disruption-free introduction of maximum- performance 802.11n performance with predictable service quality.

NetGlide WLAN system reduces the complexity of RF survey and cell planning. Client devices move anywhere within the NetGlide channel blanket, without experiencing inter-AP handoffs, re-authentication, or latency, enabling seamless mobility for enterprise wireless LANs.



Application

Enterprise Network Application

Expand Your Enterprise with a Wireless Network

Netronics provides secure, fast and reliable wireless network connectivity that's easy to deploy. No more hassle and expense of installing and maintaining E1/T1 or other leased lines and no delay and cost of obtaining a permit and trenching to lay your own fiber lines. Wireless broadband eliminates costly recurring service fees.

Monthly service fees for E1/T1 leased lines substantially increase your operating costs. There are no recurring fees for wireless broadband.
You own the network with a one time fee and your monthly operating costs are significantly reduced.
As the network operates on unlicensed frequency bands, there are no licensing fees.
Laying fiber cable is expensive and time consuming. Delays can cost money while you wait for city permits and work crews to trench and install cable in the streets and buildings.

Open-pit Mining Application

Wireless Connectivity Enables Effective Communication in Open-pit Mines

A profitable open-pit mining operation depends on effective communication, efficiency and safety. A high capacity wireless broadband network is the key to achieving these objectives.

Wireless technology enables continuous online planning and real-time monitoring of the geological and production activities throughout the operation.
The hazards of explosives, heavy equipment and steep slopes which are often unstable make injury and loss of life a very real danger. It is vital to have a fast communication network that is reliable and always available, even in difficult terrain and harsh weather conditions, to protect the crew as well as assets on site.
Mining has become a communication technology dependent industry.
Operations are supported by software applications accessed through a network.
When a data network shuts down or becomes unavailable, safety and productivity are compromised.

SeaPort Application

Meeting Seaport Demands for Security, Operations and Access

Seaports around the world are constantly facing new challenges, particularly as legislature makes demands for better security and telecommunications industries integrate technological innovations. Similar to other traditional business, seaport authorities are being forced to improve their IT infrastructures in order to remain competitive.
Wireless broadband access offers an ideal solution. In addition to eliminating the challenges involved in laying wireline infrastructures in concrete and in the sea, it also offers the opportunity to provide broadband access to vessels anchored in harbors and marinas.

As warehouse locations and equipment move around outdoors, seaports need flexible connection solutions suitable for outdoor warehousing, without the limitations of wired infrastructures. Furthermore, they have to comply with security legislation (international Security for Ports and Ships - ISPS) designed to ensure maximum protection against terrorism and attacks, or face the prospect of losing business from shipping operators.

Municipal Application

Empowering the Community

Leave politics out of the equation; when it comes to the success of local government, the only true benchmark for public satisfaction is quality of life.
From small rural townships and large counties to the sprawl and bustle of urban centers, maintaining the integrity and comfort of "the Community" is a complex sequence of challenges.

Making it all work depends on efficient communications networking among a large variety of players, including major utility companies, law enforcement agencies, educational institutions, traffic control, sanitation and public health services, and more.
Government departments that work together over a single integrated network achieve greater results.

Public Safety Application

Securing the community with Broadband Wireless

Making Public Safety work in the community entails a vast web of independently mandated departments, from law enforcement agencies and first responder units to firefighters, Emergency Medical Services (EMS), hospitals and beyond. Getting all of these players "on the same page" can often mean the difference between crisis and control.
The key to it all? Seamless, inter-departmental networking empowered by Netronics broadband wireless systems. Wireless enables every agency to communicate freely with its counterparts by making mission-critical data, video feeds and mobile services available in real-time to all the links in the public safety chain.

Oil, Gas and Industrial Application

Communications Infrastructure in the Oil Field: Wireless is the Way

Few markets have more to gain from reliable, high-capacity wireless broadband solutions that cover dozens or even hundreds of square miles than the oil & gas industry. Reduced lifting costs, remote video surveillance, VoIP and even multi-megabit mobile access over water or on wheels can be delivered under a single solution.

But the big benefits can only be realized using solutions that are specifically designed for the harsh oil & gas environment. The oil patch is a dynamic place where things constantly change, the environment is unforgiving and the locations are often remote.
It is a place where function is everything, and everything has a purpose. That purpose is to squeeze out every possible drop of productivity. In the modern oil field effective communications networks are key to enabling and maximizing efficiencies and driving down overall lifting costs. Today, the best communications infrastructure technology for the oil & gas industry is wireless broadband.

Water Utilities Application

Wireless Networks for Innovative Utility Business

Wireless broadband is the best platform for improved efficiency security, offering reliable and high-capacity connectivity to water utilities, which is essential for providing and maintaining a high-level of service. Companies strive to ensure flawless distribution of fresh water to increase customer satisfaction. The elements required to accomplish these goals are served by a single and shared wireless network. These include:
- Continuous monitoring of water systems.
- Security via video surveillance and automatic alarm systems.
- Improved internal communication efficiency through shared network applications and IP telephony.
- Accurate accounting through the use of AMR systems.

With proven ROI, wireless broadband is highly cost effective compared to leased lines or cellular solutions, and provides secure and reliable communication at a much higher throughput area.

"Hidden assets" such as water towers and elevated storage tanks can be used for easy deployment of the wireless network, eliminating any location costs for wireless links. In addition, a wireless broadband network offers a unique opportunity to create new revenues by leasing the wireless platform to other municipal agencies, businesses or residences.

Where needed, point-to-point links can reach up to 50 kilometres. Security features like AES 128-bit encryption, IP filtering and Virtual Local Area Network (VLAN), enable a variety of services to be delivered over the same network.
Water utilities require an around the clock network for ensuring seamless service. Netronics offers an easy-to-deploy, cost-effective and reliable solution, providing uptime of nearly 100% overtime and proven 11 year MTBF rate (Mean Time Between Failures).

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