

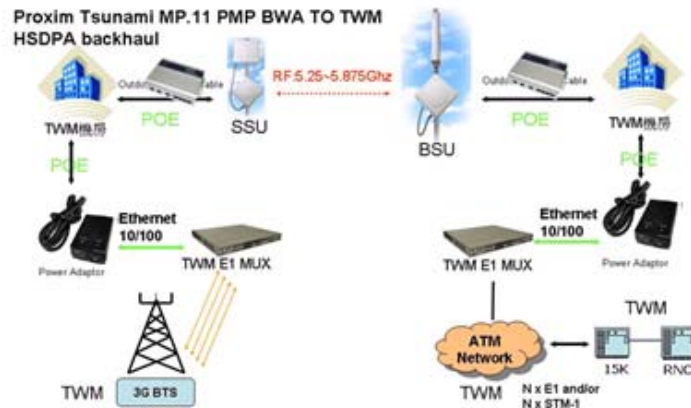
Korenix Sky

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Power Up WiMAX Base Stations in Wireless Broadband Services

Enterprises, Internet Service Providers, and Mobile Network Operators are all looking for cost-effective ways to move voice and data among multiple, separate locations at broadband speeds. Copper and fiber optics solutions often fall short due to up-front costs, recurring leases from telecommunications companies, and a lack of flexibility to scale with the operating organization. Broadband Wireless Access (BWA) in WiMAX technology has emerged as a means to fill these gaps and to provide a lower total cost of ownership than wired solutions.



To assure the reliable and the long range wireless communication between WiMAX Base Station Unit (BSU) and WiMAX Subscriber Unit (SU), the solution demands a high power consumption and 48VDC power supply. It provides a cost effective solution to service providers by connecting backhaul of telecommunication in WiMAX to replace the current wired leasing line.

The [JetNet 4706/ 3706](#), Industrial PoE Plus managed switches, support 30 Watts per PoE port with wide power input range 24V~50VDC, which sufficiently meets the power requirements of WiMAX Stations. For the managed JetNet 4706 series, each of the four PoE ports can be configured on weekly schedule by hourly basis. PoE on/off can also be controlled remotely via SNMP or web (JetNet 3706). The two uplink ports (100M TX or 100M FX) can be configured as Rapid Super Ring ports, recovering network failure in less than 5ms. [JetNet 4706](#) also supports comprehensive and user-friendly management interfaces, such as SNMP v1/v2/v3, RMON, Web interface, Telnet, Cisco-like CLI via RS-232 console.

[JetNet 4706/ 3706](#) series use IP-31 aluminum housing to carry out superior heat radiation, robust and light weight. It also provides an enhanced protection for the non-stop operation under hazardous operating temperature, -20~60 °C and 10%~90 % humidity.

[JetNet 4706/ 3706](#) series are simply the best choices to build up an intelligent, power over Ethernet management, wireless services and cost-effective IP surveillance infrastructure.

High Power Forwarding System

The IEEE802.3af Power over Ethernet standard specifies 15.4w power budget for PD system. However, 15.4w is simply not enough for some applications. JetNet 3706/ 4706 follows two PoE mechanisms, IEEE 802.3af and High Power pre-standard IEEE 802.3at for 30W power budget. To recognize the PD classification ID, a powerful micro-processor is installed in [JetNet 3706/4706](#) for power detection, classification, powering and disconnection processes. The JetNet 3706 / 4706 can power PD with different power level in PD classification ID replied.

Power Budget & Weekly Scheduling PoE Power Control

To achieve the energy saving, the [JetNet 4706/3706](#) also implements an excellent PoE power limit control mechanism, such as PoE port disable/enable, power limit mode selection for IEEE 802.3af standard, manual configuring power budget accordingly to each port's power consumption. [JetNet 4706](#) provides a weekly scheduling PoE Power Control to conserve energy and extend the powered device life time. JetNet 4706/ 3706 implements the scheduling control for PoE similar to UPS, Uninterruptible Power Supply. It provides hour-by-hour power control on a weekly schedule; each port can be configured with different rules for different hours of the day and different days of the week. This feature significantly improves power usage and meets economic resource management requirements.

■ ■ What's New

I. Company News and Highlights

■ **2007 Master Catalogue Grand Delivery**

Korenix new master catalogue is now available by request! This brand new catalogue illustrates complete industrial computing and networking applications, and detailed industrial product selection guides. You can email to sales@korenix.com to request a free copy of Korenix new catalogue now.



[JetPoE Series](#)



[JetNet Series](#)



[JetCon Series](#)



[JetBox Series](#)



[JetPort Series](#)

■ **Just US\$10 Promotion for High Quality Industrial Ethernet Switches/Converters :**



Korenix is now offering a new promotion for high quality industrial products. If you order any of Korenix new products, you can get one bonus product at just USD10/Euro10. Contact Korenix worldwide distributors or sales@korenix.com to request this promotion coupon. You can also visit the link for more details. http://www.korenix.com/e-DM/2007_eDM/Korenix_just_USD10_20070630.htm

● Buy one JetNet 5010G & get one JetNet 4005	@USD10
● Buy one JetNet 3010G & get one JetNet 3005f-m	@USD10
● Buy one JetNet 4508 & get one PoE- PSE48AF	@USD10
● Buy one JetNet 3705(f)/3706/4706 & get one PD1205	@USD10
● Buy one JetCon 2401-m & get one JetCon 2101	@USD10
● Buy one JetPort 5604 & get one JetCon 2101ir	@USD10

■ **Korenix extends the distribution service to USA**



Korenix Technology is excited to announce the grand opening of Korenix-USA, located in City of Industry, California. With our local presence, Korenix is able to provide technical support, warranty repair, and sales force to better serve the US customers such as resellers, System Integrators and end-users with quick and professional service.

Korenix-USA faculties are experienced elites of industrial networking, and we are confident that Korenix-USA is your ultimate source and reliable partner for marketing information and network solutions. Our sales team works extensively with resellers to promote our merchandize at competitive price and System Integrators to win the price sensitive projects.

We offer marketing material such as our Master Catalogue and Compact Brochure for our partners and end-users to fulfill their marketing needs upon request. In addition, we offer device live demo, sample, and training demonstrated and illustrated by our engineers.

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II. High-Tech Talk

Smart Powered Device Alive-Check

[JetNet 4706](#) can be configured to run linking Powered Device alive check continuously to detect the real-time status. If the PD fails to respond, [JetNet 4706](#) will turn-off and then turn-on the PD's power to trigger remote PD cold start process. The connected PD can be automatically managed and reboot by [JetNet 4706](#).



Embedded Gigabit Managed Switch Board with Conformal Coatings for Industrial Extreme Environments



The [JetNet 5008G-P](#), a Gigabit Embedded Managed Switch Board (EMSB), equipped with six 10/100Base-TX ports, two Gigabit RJ-45/SFP Fiber combo ports, one internal Gigabit RJ-45 port for system connectivity and management. The Gigabit EMSB with **conformal coatings** can sustain **400 volts/mil, 15.8 kV/mm in dielectric strength to meet the UL 94V-0/ 94 HB flammability classification, UL 746C approval and MIL-I-46058C standard.**

The board size is just 200mm (Width) x 140mm (Depth) x 30mm (Height), giving flexibility and compatibility in system integration. The optional version with conformal coatings applied in thin layers onto printed circuits provides environmental and mechanical protection to significantly extend the life of the components and circuitry. It protects electronic printed circuit boards from moisture and contaminants, preventing short circuits and corrosion of conductors and solder joints. The stress relief is also provided, as is protection of the insulation resistance of the circuit board.



III. Application Case Study-I: 250 pcs JetNet 5010G to test Korenix Dual Homing Interoperability with Cisco Layer 3 Switch



Korenix has successfully conducted a 250-unit of [JetNet 5010G](#) test with seven loops of Rapid Super Ring and Dual Homing II with Cisco Switch 3650. When man-made broken link occurred in any of the seven Ring loops and a man-made broken link path occurred in one of the Cisco Switch 3650, it still generates 50% unicast traffic and 5K MAC-address to the ring. This is a milestone for Korenix Technology that an enormous quantity of linked switches will not affect the network performance and reliability. More importantly, when we conduct the tests to measure the time needed to reboot 250 units of [JetNet 5010G](#),

we also have achieved a low average of 60 seconds after numerous attempts. A 60-second rebooting time for 250 linked switches is a revolutionary achievement that is beyond our competitors' dreams.

Application Case Study II: PoE IP Surveillance System in Public Transportation- Bus

Security of public transportation is a rising concern to government authority since the 9-11 terrorist attack; thus IP surveillance has been implemented. By using the 24VDC power from bus battery, the [JetNet 3706](#) can provide the video data forwarding and DC power to IP video camera at the same time. It also saves the efforts of wiring power cable to the IP camera, and the video captured by the IP camera can be transmitted to security control center via GPRS router or simply save it in local hard drive.

Korenix [JetNet 3706](#) is an industrial-grade switch



that is anti-vibration, anti-shock, and reliable with operating temperature from -20~60°C; a self-diagnostic LED on the front panel for easy troubleshooting. Korenix [JetNet 3706](http://www.korenix.com) is definitely your best choice for public transportation networking.

www.korenix.com