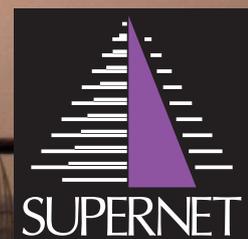


# SuperDirect

A high quality, affordable  
and reliable VSAT  
service for end-to-end IP  
networks using Ku-Band  
communications satellites



Empowering Corporate Networks

Supernet, an award winning service provider, is a wholly owned subsidiary of Telecard Limited, a licensed domestic and international long distance operator. Supernet is a pioneer in the field of providing integrated data connectivity solutions for the corporate entities and offers a one-window operation

for all corporate communication needs.

Supernet has an extensive nationwide network, an experienced team and an excellent track record of delivering world-class service.

- Over seventeen years of experience deploying similar networks
- One source for fully integrated local to global communications needs
- Operational flexibility for affordable, reliable and efficient solutions
- Solid international partnerships
- Consistent Network with built in redundancy
- 24 x 7 x 365 redundant Network Operations Center (NOC)
- Nationwide footprint for providing fast services
- Multiple Service Flow capability i.e., the same link can support different applications
- Unsurpassed reliability backed up by industry leading Service Level Agreements (SLAs)

**SuperDirect** is a Ku-Band, satellite based, end-to-end IP VSAT service running on the world renowned iDirect Technologies platform.

Supernet has a highly scalable and flexible 5 IF Hub from iDirect designed to support multiple out-routes and in-routes, while simultaneously operating on five (5) different communications satellites. Currently, the **SuperDirect** service is offered from three (3) different satellites. In the Ku-Band, Supernet uses the PAKSAT-1R satellite located at 38° E.L. and the NSS-6 satellite located at 95° E.L. The C-Band service uses the ChinaStar-1 satellite located at 87.5° E.L.

From its Hub in Karachi, Supernet supports multiple customers from various sectors, including Airline

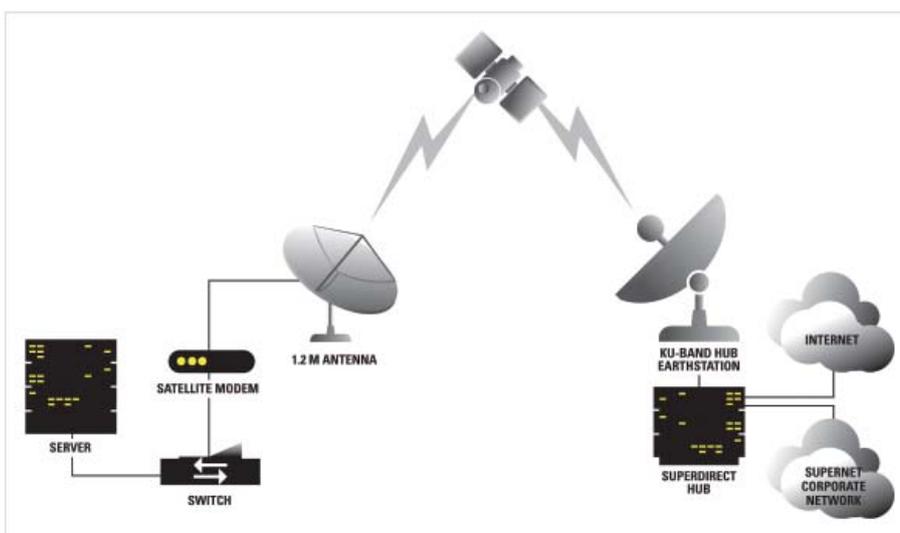
& Transportation, Banking, United Nations' Organizations, Telecom Providers, Government Departments, Manufacturing, Logistics, Construction, Mining, Education and Oil & Gas.

The **SuperDirect** service uses star topology, consisting of a Hub and multiple remotes. The last mile connection between the Supernet Hub and the customer's central site is established by using multiple transmission mediums (line-of-sight microwave radio or fiber optic network) to ensure resiliency. The **SuperDirect** service is ideally suited for networks with bursty traffic that follow a hub-to-spoke model. It can be easily configured to deliver application QoS and other traffic engineered solutions to users. The

**SuperDirect** remote consists of a 1.2 m Ku-Band VSAT antenna, a PLL LNB and a 3000 or 5000 series satellite modem from iDirect Technologies.

### SERVICE FEATURES

- \* Support all IP centric applications
- \* Built-in TCP Optimization (TCP and HTTP)
- \* Supports Real Time Traffic Management
- \* Up to 18 Mbps downstream (Hub to Remote)
- \* Up to 4.2 Mbps Upstream (Remote to Hub)
- \* Rapid bandwidth allocation
- \* Configurable data rates
- \* Group QoS Supported
- \* Ensure the highest level of network access for all users
- \* Superior error correction techniques eliminate weather related performance degradation
- \* Automatic End-to-End power control
- \* Reliable Hardware
- \* Latest iDirect iDx Software
- \* Simple and Easy to use remote management
- \* Centralized software updates
- \* 1.2 m Ku-Band VSAT antenna for the remote site
- \* High powered Ku-Band satellites
- \* 24 x 7 x 365 customer service and support
- \* Expert engineering team with years of experience in designing similar networks
- \* Regional coverage



Empowering Corporate Networks

**Karachi**  
10<sup>th</sup> Floor, World Trade Center,  
Kh-e-Roomi, Clifton, Block-5  
Tel: +92-21 3587 1864-7  
Fax: +92-21 3587 1869

**Lahore**  
3<sup>rd</sup> Floor, Block-2,  
Awami Complex,  
New Garden Road  
Tel: +92-42 583 1254,  
+92-42 586 5637  
Fax: +92-42 586 6184

**Islamabad**  
75-East, Blue Area,  
Fazal-e-Haq Road  
Tel: +92-51 227 2860-1  
Fax: +92-51 227 2862

[sales@super.net.pk](mailto:sales@super.net.pk)

[www.super.net.pk](http://www.super.net.pk)