



DATASHEET

# Sixnet IndustrialPro™ M2M Routers

Compact Cellular Routers for Secure Cost-Effective Remote Site Access



## PRODUCT HIGHLIGHTS

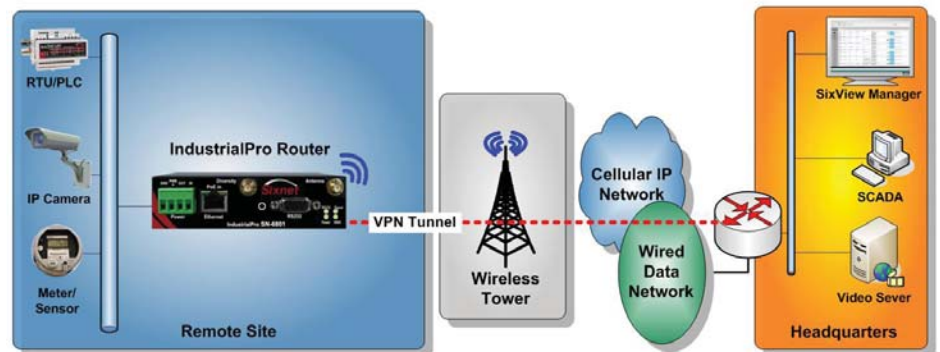
- Remote site access lowers total cost of ownership
- Simplified deployment and configuration provides ease of use
- Web-based monitoring and management simplifies deployment
- Facilitate connectivity in space-constrained locations
- Built-in security provides infrastructure protection
- Rugged, reliable design supports the toughest applications

## APPLICATIONS

- Power & Energy
- Oil & Gas/Pipeline
- Water/Wastewater
- Transportation
- Video & Security

Sixnet's IndustrialPro™ M2M routers provide secure, cost-effective wireless connectivity to remote locations and assets. As reliable primary WAN connections or backup to existing network links, the IndustrialPro routers are ideally suited for harsh industrial environments where space may be limited and wired connectivity is not feasible.

With Ethernet and Serial interfaces, our rugged industrial routers connect RTUs, meters, sensors and other remote devices to a central site or a central SCADA server. When used as a back-up application, the IndustrialPro delivers high-speed connectivity to ensure business continuity. Managed by the SixView Manager, the IndustrialPro provides user-friendly, web-based management alongside comprehensive remote configuration and control.



## FEATURES & BENEFITS

### Ubiquitous Cellular Connectivity

- Costs less per month than traditional landlines
- Provides comprehensive coverage without dedicated infrastructure
  - 2G/2.5G (GSM GPRS/EDGE and CDMA 1XRTT)
  - 3G (GSM WCDMA/HSDPA/HSUPA or EVDO Rev A)

### Built-In Security & Routing

- Protects against unwanted intrusion
- Provides ultra-reliable "always on" cellular connection
  - IP pass-through modes
  - VPN tunnel: IP SEC, SSL
  - Port forwarding
  - Stateful Firewall
  - Packet Filtering
  - Access Control List (ACL)

### Powerful Web-Based Management

- Simplifies deployment and configuration
- Provides remote monitoring and control
  - Mass activation and device upgrades
  - Remote diagnostics and troubleshooting
  - Reporting of key metrics

### Rugged, Compact Design

- Deploys easily in space-constrained locations
- Requires less cabling and power supplies
  - 40 to +75°C operating temperature
  - DIN-rail mounting
  - Power over Ethernet (PoE) options

### Total Cost of Ownership Advantages

- Eliminates visits to remote sites
- Reduces infrastructure complexity
  - Connect multiple devices to single WAN link
  - Remote TCP/IP based capabilities
  - Integrated switching/routing capabilities
  - Serial to IP conversion

FLEXIBLE. RELIABLE. POWERFUL.

# Sixnet IndustrialPro M2M Routers

Compact Cellular Routers for Secure Cost-Effective Remote Site Access

## SPECIFICATIONS

### Wireless Interface

- Dual-band CDMA2000 EVDO Rev. A (backward compatible with 1xRTT)
- GSM HSPA (backward compatible with EDGE)

### Ethernet Interface

- 1xRJ45 Ethernet 10/100 auto-sensing (SN-6601, SN-6601EB)
- 5x RJ45 Ethernet 10/100 auto-sensing (SN-6621)

### Serial Interface

- 1x RS-232 Serial DB9 115200bps

### USB Interface

- 1x USB2.0 mini

### LED Status Indicators

- Power, WAN, Signal, RS232, Ethernet Link and Activity

### Dimensions

- SN-660x: Steel 120 x 96 x 32 mm (4.7" x 3.77" x 1.25"), 453g (1 lb)
- SN-6621: Steel 120 x 96 x 51 mm (4.7" x 3.77" x 2.0"), 500g (1.1 lbs)

### Power Input

- 8 - 30 Vdc (12Vdc nominal)

### Environmental

- Operating Temp: -40 to +75°C
- Shock: IEC60068-2-27,
- Vibration: IEC60068-2-6
- Humidity: 5 to 95% non-condensing

### Certification

- EMC:FCC, part 15 and Industry Canada, ICES-003
- Hazardous Locations: Class I, Div. 2, Groups A,B,C,D, UL1604
- Electrical Safety: UL508/CSA22.2/14 (CUL)

### Routing Protocols

- OSPF, BGP, RIP

### Encapsulation Protocols

- GRE and IPinIP

### Tunneling

- IPSec-VPN and SSL

### Clustering

- VRRP

### IP

- NAT, Port Forwarding, Dynamic DNS, DHCP
- Stateful Inspection Firewall, IP Transparency

## ABOUT SIXNET

For more than three decades, Sixnet has been providing leading industrial and commercial machine-to-machine (M2M) connectivity to customers and markets worldwide. Sixnet's flexible solutions enable organizations to cost-effectively increase business productivity. By integrating powerful enterprise-class features with rugged reliability, Sixnet meets the standards of the most demanding industrial and commercial applications in industries such as power & energy, banking & retail, transportation, video & security, utilities, military, mobile data, maritime and more. Based in Ballston Lake, NY, the company has offices across North America, Asia and Europe.

For more information, visit [www.sixnet.com](http://www.sixnet.com), email [sales@sixnet.com](mailto:sales@sixnet.com) or call +1 518 877 5173

## SELECTION GUIDE

Model Draw in mA (at 12VDC)	Power Consumption		
	Standby	Tranmitting	Peaks
SN-660x	115	213	444
SN-6621	249	347	578
SN-680x	115	320	802
SN-6821	249	454	936

## SIXVIEW MANAGER

Powerful Remote Management and Monitoring Software

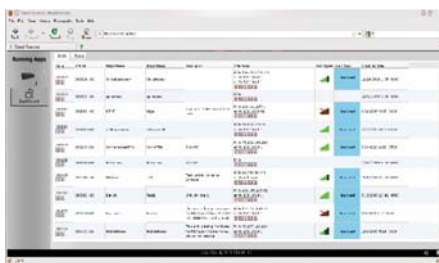
With SixView Manager's enterprise-class network management features, users have access to:

### Remote Monitoring & Reporting of Key Metrics

- Uptime
- Utilization
- Signal strength (RSSI)
- Firmware version, ESN, MDN, IMEI
- IP Address

### Remote Administration

- Mass configuration changes and updates
- Remote executable (i.e., reboot)



Sixnet, LLC Corporate Headquarters  
331 Ushers Road, Ballston Lake, NY 12019

T +1 518 877 5173 F +1 518 877 8346

**FLEXIBLE. RELIABLE. POWERFUL.**

© 2010 Sixnet. All Rights Reserved. July 2010