

SureLinx™ 8100 D+/GPRS Integrated Wireless Controller

Simplified Networking and Cost-Efficient Application Hardware Integration

Global asset managers face increasingly complex security and logistical challenges, complicated by the need to maintain unfailing contact with their fixed and mobile assets and their workforce. Even a momentary loss of contact can compromise their ability to provide immediate responses or assistance as issues arise, resulting in significant economic impact.

As the global leader for short burst satellite communications products and services, SkyWave understands these challenges and in response, has developed the SureLinx™ 8100 D+/GPRS integrated wireless controller. The SureLinx 8100 provides asset managers with seamless and efficient global coverage by combining the benefits of GPRS with SkyWave's dependable D+ to solve a broad range of applications and reduce overall cost.

The SureLinx 8100 is a compact wireless communications platform integrating GPRS and D+ into a single compact and durable package to enable lowest-cost message routing and faster application development. Solution providers can focus on customer needs and less time on solution implementation.



With its highly programmable controller and broad range of input and outputs, in addition to your power supply, it may be all you need for your applications. No need to deal with complex integration of separate GPRS modems, D+ terminals and controllers—with the SureLinx 8100, you will significantly reduce wiring and power consumption.

***Reliable, real-time
to-mobile communication***

SkyWave



By combining GPRS and D+, your applications have global coverage.

Enhanced Global Coverage

Cellular coverage reaches 29% of the world's population (GSM World). Furthermore, cellular access is predominately available in urban areas where coverage can be impacted by voice traffic congestion or environmental factors. GPRS is a regionalized service offering operated by telecommunications carriers, and although carriers may have established roaming agreements between various regions, roaming charges may limit your applications. Designing applications that use GPRS alone will limit your business potential.

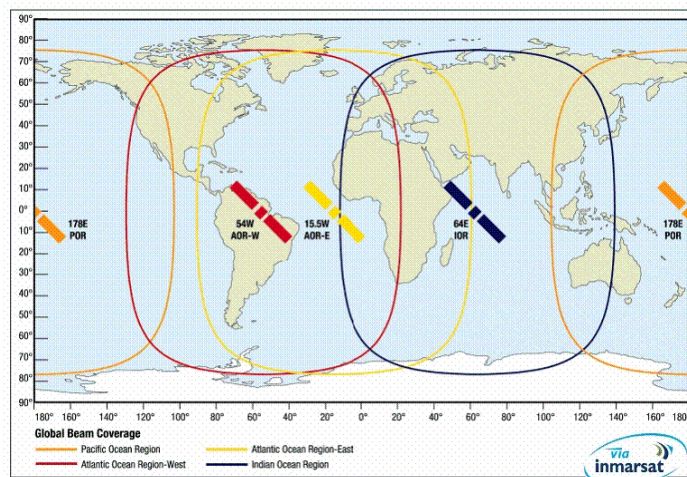
SkyWave D+ is available to 100% of the world's population between 75° North and South latitudes—on land, in the air or at sea. And because SkyWave is a global service provider, no matter which region of the world you are in, the cost structure for D+ remains the same.

Why Combine GPRS with SkyWave D+?

Leverage the low cost messaging of GPRS with the dependable global coverage and no-charge roaming of D+. These combined features are only available with SkyWave's SureLinX 8100 Integrated Wireless Controller.

Applications are no longer limited by GPRS coverage. For example, the SureLinX 8100 allows marine applications to now leverage the benefits of GPRS. With the SureLinX 8100, provide a higher level of service to asset managers to ensure low cost and warrant greater customer confidence.

Since D+ is ITU-approved for worldwide use, the SureLinX 8100 enables new applications that can transverse multiple countries while receiving the benefits of low cost GPRS. Select only pre-defined GPRS carriers—no more steep GPRS roaming charges. And when there is no approved GPRS service available, maintain a high level of service by seamlessly switching to the globally available D+ service.



SkyWave D+ global satellite coverage

With the SureLinX 8100, asset managers can be confident that:

- Their fixed and mobile assets will be accurately tracked, anywhere in the world.
- Assets will be monitored constantly and managers will be notified when events occur to guarantee asset security and measure application performance.
- With the ability to initiate communication on demand with any asset or operator, they no longer have to wait for scheduled updates.
- Historical data reports can be generated detailing any number of asset or driver-specific activities or status.
- Immediate or historical position statistics can be gathered when the cellular network is inaccessible.

Think of the possibilities.

Key Product Features

A single integrated device and interface – eliminates the need for additional components, cabling and complex integration; also reduces complexity and latency, while promoting application scalability.

Least-cost message routing – programmable D+/GPRS auto-selection; use only approved GPRS carriers to control roaming costs.

High network availability – GPRS network availability is backed by the dependable D+ network and vice versa.

Global roaming and wireless coverage – between 75° North and South latitudes.

Seamless network transitioning – on land, in the air or at sea, seamlessly transition from one network to another.

Low profile design – the compact, inconspicuous and discreet in-cab terminal makes it ideal for flexible applications and covert installations.

Geofence capability – including over-the-air programming.

Fully programmable reports – program SureLinx 8100 to report by time, distance, Geofence or any other criteria to meet your specific needs with optional message prioritization.

High reliability – fewer components (electronics, cabling, mounting, antenna, servers), and a single network interface permit less opportunity for error.

Key Product Benefits

Lower overall cost – least-cost message routing, fewer components to purchase (electronics, cabling, mounting, antenna and servers) and higher reliability means fewer repairs.

Greater end-user satisfaction – fewer components means fewer chances for application failure or error and reduced downtime.

Reduction in power consumption – the integrated wireless controller uses power more efficiently compared to available alternatives.

Reduced time-to-market – the single programming interface reduces programming complexity, speeding up application development and solution deployment.

Reduced risk – built-in alerts and exception-based reporting mean assets can operate more efficiently and at significantly lower risk; enhanced network coverage provides significant insurance against incidents.

Enable new applications – solutions combining GPRS and D+ generate new opportunities that were otherwise too costly or difficult to pursue.

Promoting application scalability – a single network interface to GPRS and D+ reduces application latency and increases scalability.

Highlights solution provider value – focus on application development and mitigate the headaches of integrating disparate hardware components.

GPRS Roaming Example



- Barge operator based Hamburg
- Shipping from Rotterdam to Austria
 - 7 days, report every hour = 168 reports
 - Follows 6 international borders
 - Cell signal switches network at least 6x based on signal strength
 - 50% transmissions "on-net"
 - 4 trips per month
- Monthly GPRS Plan is 10 € for 5MB
- Actual cost with roaming 32,04 €
 - Daily "off-net" surcharge 0,42 € per network (6+ networks)
 - Internet charges vary:
 - Austria, Netherlands each at 0,25 €
 - Belgium, France, Switzerland each at 0,69 €
 - WAP (2-way) adds even more

$$\begin{aligned} 7 \text{ days} \times 0,42 &= 2,94 \text{ €} \\ 2 \text{ network} \times 0,25 &= 0,50 \text{ €} \\ 3 \text{ network} \times 0,69 &= 2,07 \text{ €} \\ &= 5,51 \text{ €} \end{aligned}$$

$$10 \text{ €} + 4 \text{ trips / month} \times 5,51 = 32,04 \text{ €}$$

300% roaming surcharge and data use never exceeds plan (5 MB)

The SureLinX 8100 takes advantage of SkyWave's reliable *Versa™* multi-protocol gateway, which provides you with a single, flexible interface to both GPRS and SkyWave D+ networks. Simplified connectivity means applications will operate more efficiently, increasing response times. Develop applications quickly and to deliver new features to create higher revenue opportunities.

For more information on the Versa Gateway, visit www.SkyWave.com.

About SkyWave Mobile Communications

SkyWave Mobile Communications is the global leader for D+ satellite communications products and services. SkyWave designs and manufactures integrated D+ satellite terminals and provides network services to enable customers with dependable, low-cost, remote management and security solutions for fixed and mobile assets. As the leading worldwide reseller of Inmarsat D+ satellite network services, SkyWave is also first in terminal sales with an installed base of over 82,000 SkyWave D+ terminals. SkyWave D+ solutions are field-tested and proven reliable for industry-specific applications including marine, land mobile, Supervisory Control and Data Acquisition (SCADA), government and defence. Established in 1997, SkyWave is a privately held company headquartered in Ottawa, Canada.

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