

SB300 - THE HEART OF YOUR WIRELESS MACHINE



The SB300 Series: Reliable, compact, low-cost OEM modules for embedded wireless communications

Sierra Wireless has created a perfect fit. The SB300 is a Cellular Digital Packet Data (CDPD) OEM module designed to enable wireless data communications where module size, performance and price are critical. Its Type III PC Card shape makes it extremely easy to integrate and mount, while its low price and the reliability you expect from Sierra Wireless yield a cost-effective wireless data solution.

Versatile Enough for a Host of Applications

Sturdy and reliable, the SB300 is ideal for fixed platforms such as industrial meters, monitoring equipment, point of sale devices and mobile applications including



specialized laptops, handheld PCs, mobile terminals and specialized scanners.

The SB300 can be controlled and monitored in Windows® or NT environments with Watcher, our standard GUI for command and control. Or use our OEM Developer's Kit to take advantage of the SB300's rich applications interface and build Watcher functionality into your own custom application.

The SB320 offers multi-mode operation. In addition to all the features offered by the SB300, this module incorporates Circuit Switched Cellular (CSC) and wireline modes – including data, fax and voice operations.



The SB300 Series provides access to wireless data in fixed, portable and mobile computing devices.



The module's compact size eases the wireless integration efforts of OEMs.



The SB320 has the additional feature of CSC and wireline modes, including data, fax and voice.

Why the SB300 is the perfect fit for fixed and mobile platforms:

- Type III Shape – The module's small size makes it easy to integrate.
- Low-cost – Helps OEMs keep retail prices competitive.
- Serial I/F – Makes the SB300 quick and easy to integrate.
- Telemetry-specific features – Permits fast development and implementation of telemetry and remote monitoring systems.
- UDP and TCP PADs – For low-cost solutions, where no I/P stack is available.
- Backward compatibility – Easy replacement for existing SB220 installations.
- Object Management Interface – Access to modem and network performance and diagnostic data.
- Wide operational temperature range – Ideal for solutions in extended temperature environments.
- Low current drain - Provides for longer battery life.

In addition the SB320 Multi-Mode OEM module offers:

- Circuit Switched Cellular (CSC) mode over amps networks, supporting data, fax and voice communications.
- Wireline mode, supporting data, fax and voice communications.

Sierra Wireless: The Experts in Wireless Communications.

Whether it's portable modems for notebook PCs, OEM modules, or rugged high-powered modems for vehicle mounting, Sierra Wireless' modems lead the way in form, fit and functionality.

A recognized industry leader, providing cellular modems and enabling software for portable and industrial applications, Sierra's products include the award winning AirCard®, the AirCard CE, the MP200 ruggedized series and the DART 200.

TECHNICAL SPECIFICATIONS

Physical Features

Type III Form Factor
Serial Connector
Wireline/Voice Connector (SB320)
MMCX RF Connector
LED Indicator

Application Interface Features

Serial I/F
SLIP, PPP, AT-commands
Internal TCP and UDP Stacks/ PADs
Object Management Interface

SB300 Communication Features

CDPD R1.1
600mW RF Output
Full Duplex Transceiver

SB320 Additional Communication Features

Circuit Switch Cellular Mode:
- V.34 Data rates up to 16.8 kbps
- V.29 FAX rates up to 9.6 kbps
- Voice
- V.42bis and MNP5 Data Compression
- IS-91
- V.42 Error Correction (LAPM and MNP)
- ETC

Wireline Mode:

- V.34 Data rates up to 33.6 kbps
- V.17 FAX rates up to 14.4 kbps
- Voice
- V.42 Error Correction (LAPM and MNP)
- V.42bis and MNP5 Data Compression

Telemetry Features

TCP/UDP PAD Ping reply
Broadcast/Multicast Messaging
TCP Session timeout
"Friends-only" Modem Access
Auto-Dial on start-up
Software-controlled Reboot
Configurable Listening Port
PAD Escape Sequence

Electrical Features

5V Supply Voltages
Low Current Drain
Transmit: 824 to 849 MHz
Receive: 869 to 894 MHz
Channel Spacing: 30 kHz
Freq. Stability: +/- 2.5 ppm
Power Output: 600 mW
CDPD R1.1
Full Duplex Transceiver

Environmental Features

Operating Ranges:
- Temperatures -30°C to +60°C
- Humidity 40% at 50°C
Vibration:
- Mil – STD202

Accessories

Developer's Kit

Warranty

1 year Warranty

For more information on the Sierra Wireless SB300/SB320 OEM modules, call us at **(604) 231-1100**, email us at **sales@sierrawireless.com**, or visit our World Wide Web site at **www.sierrawireless.com**.



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All product specifications subject to change without notice.