5. Product Specifications

5.1 General

Radio Data Rate	11, 5.5, 2 and 1 Mbps, Auto Fall-Back
Client Interface	10/100Base-T Ethernet
Range (open environment)	300m @ 11 Mbps 400m @ 5.5Mbps 500m @ 2 Mbps 800m @ 1 Mbps
EMC Certifications	FCC Part 15 ETSI 300/328
Compatibility	Fully interoperable with IEEE802.11b compliant products
Power Supply	AC/DC Adapter：24V / 0.83A **(via AC power outlet 100~240V, 50~60Hz)** PoE：16 ~ 32V

5.2 Network Information

Network Architecture	Infrastructure (via SendFar AP/RB-8110 AP or Bridge)
Drivers	Windows 95/98/ME/2000/NT 4.0/XP
Access Protocol	CSMA/CA
Roaming	IEEE802.11b compliant
Security	64-/128-bit data encryption

5.3 Radio Specifications

Frequency Band	2.4 – 2.4835 GHz
Radio Type	Direct Sequence Spread Spectrum (DSSS)
Modulation	CCK (11, 5.5Mbps) DQPSK (2Mbps) DBPSK (1Mbps)
Operation Channels	North America：11 Japan：14 Europe：13 Spain：2 France：4
Available Transmit Power Settings	<30dBm (<1W) For FCC <20dBm (<100mW) For CE
Antenna	One detachable 5dBi omni-direction rubber antenna with RP-SMA (FCC) or SMA (ETSI) connector & 12dBi patch Antenna (Option)
Sensitivity @ FER=0.08	11 Mbps < -85dBm 5.5 Mbps < -88dBm 2 Mbps < -91dBm 1 Mbps < -93dBm

5.4 Environmental

Temperature Range	0 to 55℃ (operating) -20 to 75℃ (storage)
Humidity (non-condensing)	5% to 95% typical

5.5 Physical Specifications

Dimensions	138.7mm x 104.0mm x 38.0mm
Weight	600g

6. Software Specifications

Protocol	✧ TCP/IP ✧ NAT/NAPT ✧ DHCP Client ✧ Virtual Server Mapping (NAT inbound server) ✧ 802.1d Transparent Bridging
Security	✧ 64-/128-bit WEP encryption ✧ MAC address based access control ✧ User authentication in Web-based Manager
Management	✧ Web-based Manager ✧ Telnet configuration ✧ Console (RS-232) configuration ✧ SNMP v1 ✧ SNMP MIB-II ✧ Private MIB
Misc supports	✧ VLAN pass through
Firmware upgrade	✧ TFTP (Trivial FTP) ✧ Xmodem, 1K Xmodem ✧ Zmodem

7. Product Block Diagram

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8. Regulatory Compliance Information

FCC Part 15 Notice (Applicable to use within the USA)

CAUTION: FCC Radio-Frequency Exposure Notice

This device generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of the device and all persons. This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate SendFar's warranty and all applicable regulatory certifications and approvals.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Unintentional Radiator

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device as applicable, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1 This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undersired operation.

2 The user may find the following booklet prepared by the Federal Communications Commission helpful: *The Interference Handbook*

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

Appendix A

The purpose of this Appendix is to describe a SNMP proprietary MIB for the SendFar SF-300 Wireless Access Bridge.

This MIB Module defines SendFar implementation-specific metrics useful in managing IEEE 802.11 on SendFar boxes. This is to be used as a supplement to the standard 802.11 MIB proposed by IEEE.

Information contained in the MIB elements defined in this module is affected by the Web configuration, except where it is explicitly noted to the contrary.

Parameter Definition Table:

Name	Syntax	Access
Status Information		
ConnectedToSSID	Octet String	read-only
UsingChannel	Integer	read-only
AccessPointMACAddress	Octet String	read-only
CurrentTransmissionRate	Integer	read-only
CurrentLinkQuality	Integer	read-only
ClientBridgeMACAddress	Octet String	read-only
CurrentIPAddress	IP Address	read-only
LinkUpIndicator	Integer	read-only
Firmware Version	Octet String	read-only
Counters		
ReceivedPacketsGoodCount	Counter 32	read-only
ReceivedPacketsBadCount	Counter 32	read-only
SentPacketsGoodCount	Counter 32	read-only
SentPacketsBadCount	Counter 32	read-only
BootCount	Counter 32	read-only
Privacy Settings		
WEPEnabled	Integer	read-write
WEPKeyLength	Integer	read-write
WEPKey	Octet String	read-write
WEPKeyNumber	Integer	read-write
DenyUnencriptedData	Integer	read-write
System / IP settings		
OperationMode	Integer	read-write
IPAddress	IP Address	read-write
SubnetMask	IP Address	read-write
IpGateway	IP Address	read-write
DeviceName	Octet String	read-write
WEB Administrator Settings		
UserName	Octet String	read-write
Password	Octet String	read-write
System Management		
SysConfigSave	Integer	read-write

SysReboot	Integer	read-write
SysConfigApply	Integer	read-write
ResetToFactoryDefaults	Integer	read-write
ClearCounters	Integer	read-write
Bridge Table		
BridgeTabeMACAddress	Octet String	read-only