

**SurfinBird IX78 Broadband Access Router with Firewall and ADSL Modem for use with IP-PBX**

Features	Note	SurfinBird IX78 ADSL T8 GW2
<b>ADSL</b>		
ADSL full rate (G992.1/T1.413) and extended reach		X
ADSL 2+ (G992.3, G992.5)		X
Annex M (extended upstream speed)		X
Annex A / Annex B / Annex C*		X
<b>Access Router</b>		
NAT/PAT		X
DHCP Server / Client		X
Local DNS Server		X
Dynamic DNS Client		X
LAN Support - Separate Ethernet Subnets		X
Additional Public IP Addresses on LAN		X
DMZ		X
Ethernet Ports		5
USB Host Port		1
PPPoE, PPPoA		X
RIP1, RIP2		X
Multiple ADSL WAN PVCs with QoS Routing		Up to 8
RTSP Proxy (e.g. for Video-on-Demand)		X
Multicast Support with IGMP Proxy and Unicast Conversion (for IPTV)		X
Multiple Ethernet WAN VLANs 802.1p/q with QoS Routing		Up to 8
Throughput (WAN ↔ LAN through firewall)		Up to 90 Mbps
<b>Firewall</b>		
Router-based		X
Packet Filtering		X
Stateful Inspection		X
Proxy Firewall		X
Game and Application Support		X
Selectable Firewall Security Levels	IX	X
Port and IP Redirections		X
Manual Firewall Rule Edit	IX	X
VPN Pass Through (multiple clients): SSH, PPTP, IPSec ESP Tunnelling Mode, IPSec NAT-T (IPSec over UDP)		X
<b>VPN Server &amp; Client (upgrade package)</b>		
Protocol:	IPSec	U
Crypto:	DES, 3DES, AES Hardware accelerated Diffie-Hellman: group 1, 2 and 5	U
Identification:	X.509 Certificate, Pre-shared key	U
Authentication:	RSA, DSS	U
RSA Key Length:	2048, 1024, 512	U
Authentication Methods:	HMAC with MD5, HMAC with SHA-1	U
Max. Number of Simultaneous Live Connections		20
VPN Server & Client Configuration: EasyServer - Create a Complete VPN Server with One Click EasyClient - Connect to Common VPN Servers Easily	IX	U
Creation of Client Certificates	IX	U
<b>Wireless</b>		
IEEE 54Mb/s 802.11b/g Access Point		U
MAC Address Filtering		U
WEP encryption 64 and 128 bits		U
WPA / WPA2 Encryption, 802.11i		U
WiFi Protected Setup		U
Antenna:		1 Fixed, 1 Internal
<b>Status and Logging</b>		
Network Status		X
Logging: System Log, Firewall Log, SIP Log, VPN Log, Call Log (CDR)		X
Export to External Syslog Server		
<b>Quality of Service (QoS) for VoIP</b>		
Tag Traffic for Prioritization of SIP Media Streams in Subsequent Network Equipment (DiffServ and TOS)	IX	X
Prioritization of SIP Media Streams (Automatic)		X
Call Admission Control for SIP	IX	X
Reduces data traffic upstream to allow SIP voice and video (Traffic Shaping)		X

**X = Standard feature**  
**IX = Intertex specific feature, not found in mainstream routers**  
**U = Upgradeable Feature**

For more information please see [www.intertextdata.com](http://www.intertextdata.com)

Subject to change without notice.

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Features	Note	SurfinBird IX78 ADSL T8 GW2
<b>SIP Support (IP Telephony (VoIP), Video, Presence, Instant Messaging and more)</b>		
True SIP Transparent Firewall (between LAN and the Internet) (NAT and Firewall controlled by SIP Proxy and registrar)	IX	X
Common SPAM/SPIT Control (blacklist, whitelist, authentication)	IX	X
Simultaneous global SIP calls (Extended by session licenses)	IX	8-U
<b>SIP Trunking (Connecting IP-PBXs to supported SIP Trunk Service Providers. 1 license included in T8 model)</b>		
B2BUA Capable Registrations and Authentication (separate on Trunk and PBX side)	IX	X
Interoperability and architectural support for most IP-PBXs on the market	IX	X
Routing of calls between Trunk numbers and PBX numbers or SIP clients	IX	X
Trunk group support (RFC 4904)	IX	X
Call Admission Control	IX	X
Additional SIP Trunks (for more PBXs and/or Service Providers) – One license for each extra	IX	X
<b>SIP Server Upgrade (Own SIP domain with advanced routing)</b>		
Register SIP phones and soft clients	IX	X
Routing of SIP calls globally, outgoing and incoming	IX	X
Dialling Plan (Trap Number, Route to PSTN Gateway)	IX	X
ENUM lookup	IX	X
Dial 0 or 9 for Outside PSTN Line (like a PBX, Optional)		X
Mix SIP URL, PSTN Number and Extension Numbers	IX	X
Use Service Provider's Ordinary SIP Account as Gateway to the Telephone Network (PSTN) for All Users (B2BUA)	IX	X
<b>Seat User License Functions (Upgrade to add PBX-like functionality per user. Included with FXS ports.)</b>		
Internal Extension Numbers	IX	U
Incoming Call Processing (forward in sequence or parallel)	IX	U
Match Incoming Calls from PSTN Gateway to Users	IX	U
Route to external voice mail server	IX	U
Individual SPAM/SPIT Control (blacklist, whitelist, authentication)	IX	U
<b>Other Upgrades, C+S+F+SIP Server Included in SIP Switch Upgrade (also available as separate upgrades)</b>		
C: Crypto pack: TLS, SRTP pass through	IX	U
S: SIPParator: Ordinary, LAN and WAN* SIPParator	IX	X
F: FENT (Far-End NAT Traversal)	IX	U
<b>SIP ↔ Telephone Network Gateway (FXO port)</b>		
FXO Port accessible from LAN and WAN with authorization	IX	X
For Emergency Calling and Other Locals Calls	IX	X
Integrate Incoming Calls on Existing Number with SIP VoIP	IX	X
Back up if VoIP Provider's Service Unavailable	IX	X
Forward incoming calls and collect extension numbers	IX	X
<b>FXS Port for Analogue Telephone (Becomes SIP Client)</b>		
FXS Port accessible from LAN and WAN	IX	X
Can register at Internal or Service Providers SIP Server	IX	X
Dial Using DTMF or GUI (e.g. for URL calling)		X
Caller ID methods: V.23, Bell 202, DTMF		X
T.38 (Fax over IP) and Fax pass through	IX	X
Fallback to telephone line at power loss		X
Telephony Functions (Caller-id, Call Waiting, Call Hold, 3-way Calling, Attended and Blind Transfer)		X
<b>Other Features</b>		
Email Notification	IX	X
Web Based Configuration		X
Telnet CLI Configuration		X
TR-069		X
SNMP v2		X
Upgradeable Firmware		X
Keys and Display	IX	X
Operating System Support		Independent
<b>Ordering info</b>		
Ordering Number		IX78 ADSL T8 GW2

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 \* = Feature planned for free upgrade (Timing TBD)

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Supported Protocols: IPSec, IKE, GRE, L2TP, PPTP, PPPoE, IP, ICMP, TCP, UDP, IGMP, FTP, RTSP, SIP, CHAP, PAP, SNT, POP3, DNS

FXS and FXO port features: G.711, G.729, G.729A Voice Codecs, G.168 Echo Cancelling, Silence suppression and comfort noise generation, In or Out of Band DTMF, Digest Authentication

Certification: CE, FCC  
 Dimensions: 165 x 154 x 35 mm, (excl. stand and antenna)  
 Weight: 0.3 kg (excl. power supply)  
 Mounting: Vertical (with stand), wall mount  
 Power Supply: 12 V DC, 1A