

Competitive VoIP Residential Gateways

IP telephony service providers will find the Vood™ 100 Series to have the best combination of simplicity and sophistication available.

Vood 100 Series CPEs

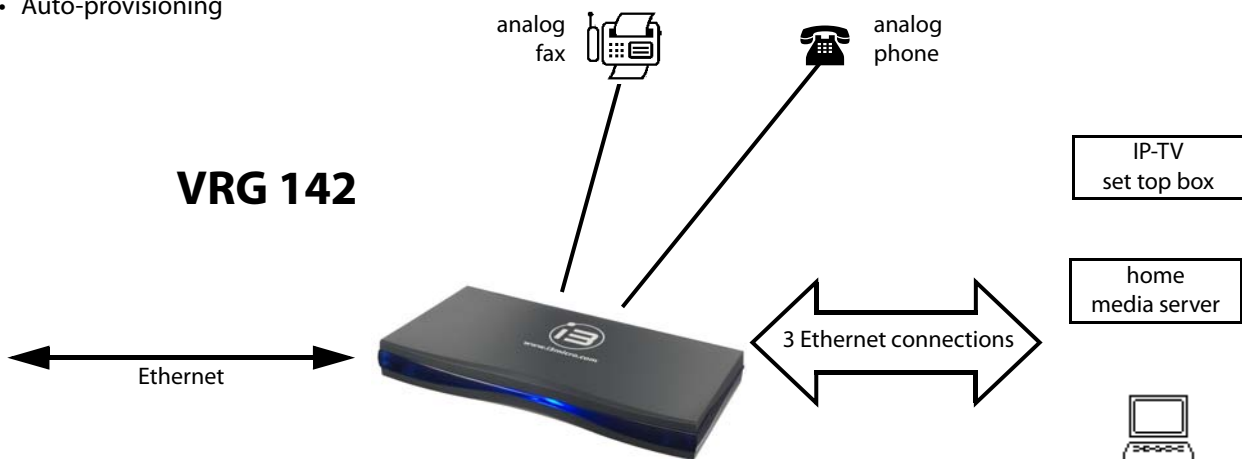
- Competitive residential gateways with integrated switch
- IGMP snooping for Triple Play
- Excellent voice quality
- Extensive softswitch integration
- Full support for all major VoIP standards and services
- Remote management by i3 Centre
- Auto-provisioning

Fraud-Reducing Security

- AES/RSA encryption
- Endpoint authentication
- Login access controls
- Full operator control of configuration parameters
- Restricts misuse by hackers

i3 Centre Management Solution

- Central element management
- Subscriber management
- SOAP/XML interface
- Group-level and user-specific configuration settings
- Statistics reports
- Certified for Sun and HP servers



Plug and Play

- Little or no end-user involvement in installation and setup
- No end-user involvement in remote software upgrades
- **All standard POTS services kept and fully mimicked for easy customer transition**
- **New IP-based services added and flexibly designed for easy customer adoption**

Extended Revenue Sources

- Voice mail
- Email retrieval as voice mail
- Email / TV interaction
- Caller ID
- Web interface phone feature
- Revenue-enhancing features controlled via i3 Centre

Low Cost of Ownership

- Shorter time to market
- Full operator control
- Reduced customer support
- Reduced product support
- Restricted fraud
- Fewer lost customers



* Note: The layer 2 switch applies to models 121 and 142.

Vood 100 Series	Vood 200 Series	Vood 300 Series	Vood 400 Series
Ethernet	Fiber to the Home	Ethernet	ADSL2+
Layer 2 Switch*	Layer 2 Switch	Layer 3 NAT Router & Firewall	Layer 3 NAT Router & Firewall

Vood 100 Series CPEs	VTA 111™	VRG 121™	VRG 142™
Ethernet WAN connection	✓	✓	✓
# LAN Ethernet ports (RJ-45)		1	3
# FXS analog telephony ports	1	1	2
Layer 2 switch		✓	✓
Triple Play ready		✓	✓
Target Market	ASPs / ISPs	ASPs / ISPs	ISPs

i3's Competitive CPEs for ASPs and ISPs

The VRG 100 Series includes i3's Ethernet-based Vood Terminal Adapter and Vood Residential Gateways, all with extensive softswitch integration. These enable service providers to offer excellent voice quality IP telephony over any major VoIP standard to the residential market. They provide one or two analog subscriber lines and up to three LAN ports for simultaneous Internet access.

All models connect to the IP network using Ethernet for maximum deployment flexibility. They can use any type of broadband access network, such as xDSL, cable or Ethernet.

i3 Centre™ Management Solution

All i3 VoIP CPEs are designed to be centrally managed by the i3 Centre. The operator uses the i3 Centre to define complete group-based CPE configurations. The CPEs then provision themselves during bootup with these settings, assuring the operator of full control of CPE behavior and relieving end-users of configuration hassles. This auto-configuration process is an authenticated and securely encrypted procedure.

Key Benefits:

- ✓ Low cost of ownership
- ✓ Full support for all major VoIP standards & services
- ✓ Plug & Play
- ✓ Billable features managed through i3 Centre
- ✓ Extensive softswitch integration
- ✓ Complete & secure management via i3 Centre

Another i3 Centre management feature is the ability to turn on or off potential revenue-generating features for individual customers. Customers might opt to subscribe to voice mail, caller ID or web-based telephoning. They may also choose to listen to voice messages as email attachments.



The i3 Centre is also able to link directly to third party solutions such as customer care systems. For more details see other i3 Centre product information.



* Note: The layer 2 switch applies to models 121 and 142.

Connectors

- VTA 111: 1 x RJ-11, 1 x RJ-45
- VRG 121: 1 x RJ-11, 2 x RJ-45
- VRG 142: 2 x RJ-11, 4 x RJ-45

Codescs

- G.711 A-law / μ -law (56 & 64 kbps)
- GSM 06.10 (13 kbps)
- G.723.1
- G.729
- Echo Cancellor (G.165 / G.168)
- Advanced dynamic jitter buffering
- Error Concealment (G.711 Annex I, Improved Error Concealment)
- T.38 fax relay
- Fax / modem pass-through (G.711)
- DTMF detection

Web Interface

- Phonebook
- Call list (dialed calls / missed calls / all calls - date, number, call length)
- Answering machine setup (listen to messages, configuration of email forwarding)
- Triple Play integrated

Telephony Features

- Smart dial, short numbers, call diversion, call hold, call waiting, message waiting, inquiry call, three-way conferencing, call forwarding (always, when busy, no reply time-out, to answering machine), configurable dynamic supplementary service codes, polarity reversal
- Caller ID: DTMF and FSK (ETS / Europe, BT / UK, CCA / UK, Telecordia / US, TIA / US), CLID restriction
- Dial plan: short number prefix, call blocking, hotline, warmline
- Answering machine: (built-in, local storage of messages, user-recordable greeting message, messages can be forwarded to email account as attachment)

Provisioning

- i3 Centre (endpoint authentication)
- SNMP
- Web interface

Telephony Protocols

- SIP (RFC 3261)
- H.323 v4
- MGCP 1.0
- NCS

Integrated Ethernet Switch*

- Full non-blocking wire speed reception and forwarding
- Remote management support
- 10 / 100 Mbps auto-negotiation
- Auto MDI / MDIX
- Full / half duplex
- IGMP snooping
- Rate limitation
- Storm protection
- Filtering
- 16 VLANs
- VLAN tagging / untagging
- Two QoS queues
- IEEE 802.1 p / q

NAT Traversal

- Basic
- UPnP
- STUN

Compatible VoIP Vendors

- Alcatel
- Cisco
- Ericsson
- Hotsip
- Lucent
- Marconi
- NetCentrex
- Nortel
- Plus others

Protocols

- DHCP
- NTP
- RTP/RTCP
- HTTP
- SNMP
- IGMP v2 / v3
- SMTP

Other

- Power: 5 W (111/121), 10 W (142)
- Dimensions: 163mm x 132mm x 33mm / 6.4" x 5.2" x 1.3" (111/121); 286mm x 138mm x 34mm / 11.25" x 5.34" x 1.34" (142)
- Weight: 370 g / 0.82 lbs (111/121); 650 g / 1.42 lbs (142)

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