

## Ranch Networks Product Line




Asterisk compatible appliances providing per-call security, NAT traversal and QoS

	<i>RN300</i>	<u><i>RN20L</i></u>	<i>RN20</i>	<u><i>RN40</i></u>	<i>RN41</i>
<b>VoIP Features</b>					
Concurrent Calls	30	75	200	400	400
Per-call Security	Yes	Yes	Yes	Yes	Yes
Per-call Bandwidth Allocation	Yes	Yes	Yes	Yes	Yes
Per-call Rate Limiting	Yes	Yes	Yes	Yes	Yes
NAT Traversal	Yes	Yes	Yes	Yes	Yes
RTP Traffic Bridging	Yes	Yes	Yes	Yes	Yes
1+1 High Availability	No	Yes	Yes	Yes	Yes
Signalling protocol independence	Yes	Yes	Yes	Yes	Yes
Encrypted Traffic support	Yes	Yes	Yes	Yes	Yes
Security separation of Voice and Data	Yes	Yes	Yes	Yes	Yes
Firewall Throughput	100 Mbps	150 Mbps	500 Mbps	1 Gbps	1 Gbps
Security Zones	5	5	30	30	30
Denial of Service protection	Yes	Yes	Yes	Yes	Yes
Clustering	No	Yes	Yes	Yes	Yes
Media Switching	Yes	Yes	Yes	Yes	Yes
<b>Data Networking Features</b>					
Bandwidth Management & QoS	Yes	Yes	Yes	Yes	Yes
Server Load Balancing	No	Yes	Yes	Yes	Yes
Health Monitoring	No	Yes	Yes	Yes	Yes
User Authentication	Yes	Yes	Yes	Yes	Yes
Accounting	Yes	Yes	Yes	Yes	Yes
Interfaces: 10/100 BaseT	3	12	12	N/A	N/A
10/100/1000 BaseT	N/A	N/A	N/A	8	N/A
SFP GBIC	N/A	N/A	N/A	2	10

# Product Line Detailed Specification

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<b>Performance and Capacity</b>					
Firewall Throughput	100 Mbps	150 Mbps	500 Mbps	1 Gbps	1 Gbps
Multicasting	No	No	1 Gbps	1 Gbps	1 Gbps
Concurrent Sessions	24,000	100,000	256,000	256,000	256,000
New Sessions / Second	2,000	8,000	18,000	18,000	18,000
Total Policies / Rules	256	256	1024	1024	1024
<b>Modes of Operation</b>					
Layer 2 Mode / Transparent Mode	Yes	Yes	Yes	Yes	Yes
Layer 3 Mode / Route Mode	Yes	Yes	Yes	Yes	Yes
NAT (Network Address Translation)	Yes	Yes	Yes	Yes	Yes
PAT (Port Address Translation)	Yes	Yes	Yes	Yes	Yes
Policy Based NAT	Yes	Yes	Yes	Yes	Yes
Virtual IP	32	32	128	256	256
Mapped IP	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
User supported	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
IP Routing – Static Routes	128	128	512	1,024	1,024
<b>IP Address Assignment</b>					
Static	Yes	Yes	Yes	Yes	Yes
DHCP Server / Client / Relay, PPPoE Client	Yes	Yes	Yes	Yes	Yes
<b>High Availability</b>					
Device Redundancy (device failover)	No	Yes	Yes	Yes	Yes
Link Redundancy (link failover)	No	Yes	Yes	Yes	Yes
WAN failover	No	Yes	Yes	Yes	Yes
Back-up Power Supply (available)	No	Yes	Yes	Yes	Yes
Over-designed Fan Management System	No	Yes	Yes	Yes	Yes
Device failure detection / notification	No	Yes	Yes	Yes	Yes
Configuration synchronization	No	Yes	Yes	Yes	Yes
MTBF > 200,000 hours	Yes	Yes	Yes	Yes	Yes
<b>Security Zones</b>					
Max Physical Zones	3	5	12	10	10
Max Virtual Zones	5	5	30	30	30
Overlay without IP address reconfig.	Yes	Yes	Yes	Yes	Yes

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<b>Firewall</b>					
Denial of Service and DDoS protection	Yes	Yes	Yes	Yes	Yes
Mirroring	Yes	Yes	Yes	Yes	Yes
Rate Limiting between zones	Yes	Yes	Yes	Yes	Yes
Policy-driven security-on-demand	Yes	Yes	Yes	Yes	Yes
Security based on MAC address	Yes	Yes	Yes	Yes	Yes
Network attack detection	Yes	Yes	Yes	Yes	Yes
SYN attack	Yes	Yes	Yes	Yes	Yes
Large ICMP, ICMP flood, UDP flood	Yes	Yes	Yes	Yes	Yes
Ping of Death	Yes	Yes	Yes	Yes	Yes
IP spoofing attack	Yes	Yes	Yes	Yes	Yes
Port scan attack	Yes	Yes	Yes	Yes	Yes
Fragmented packet protection	Yes	Yes	Yes	Yes	Yes
Malformed packet protection	Yes	Yes	Yes	Yes	Yes
Land attack and Tear drop attack	Yes	Yes	Yes	Yes	Yes
Filter IP source route option	Yes	Yes	Yes	Yes	Yes
IP address sweep attack	Yes	Yes	Yes	Yes	Yes
Default packet deny	Yes	Yes	Yes	Yes	Yes
Per-source session limiting	Yes	Yes	Yes	Yes	Yes
SYN fragments	Yes	Yes	Yes	Yes	Yes
SYN and Fin bit set	Yes	Yes	Yes	Yes	Yes
No flags in TCP	Yes	Yes	Yes	Yes	Yes
Fin with no ACK	Yes	Yes	Yes	Yes	Yes
ICMP fragment	Yes	Yes	Yes	Yes	Yes
IP option based filtering	Yes	Yes	Yes	Yes	Yes
Unknown protocols	Yes	Yes	Yes	Yes	Yes
<b>VPN</b>					
Max. Site-to-Site VPN Tunnels	32	128	128	256	256
Max. Remote Access VPN Tunnels	32	128	128	256	256
3DES / AES throughput	30 Mbps	30 Mbps	90 Mbps	200 Mbps	200 Mbps
VPN policies	64	64	512	1024	1024
DES / 3DES / AES /RC4 / RC5 encryption	Yes	Yes	Yes	Yes	Yes
IPSEC User Authentication	Yes	Yes	Yes	Yes	Yes

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<b>Server Load Balancing</b>					
Round Robin, Weighted Round Robin	No	Yes	Yes	Yes	Yes
Least Connections	No	Yes	Yes	Yes	Yes
Persistency based on: Cookie, SSL, Client IP, HTTP, HTTPS, TFP (active and passive)	No	Yes	Yes	Yes	Yes
Number of Logical Servers	N/A	64	512	1,024	1,024
<b>Bandwidth Management and QoS</b>					
Guaranteed bandwidth	Yes	Yes	Yes	Yes	Yes
Maximum bandwidth	Yes	Yes	Yes	Yes	Yes
Priority bandwidth	Yes	Yes	Yes	Yes	Yes
Minimum bandwidth	Yes	Yes	Yes	Yes	Yes
Packet/Connection based	Yes	Yes	Yes	Yes	Yes
Number of contracts	32	32	512	1024	1024
Number of traffic filters per contract	8	8	16	16	16
7-tuple classification	Yes	Yes	Yes	Yes	Yes
Classification based on DiffServ, ToS	Yes	Yes	Yes	Yes	Yes
DiffServ, ToS stamping	Yes	Yes	Yes	Yes	Yes
<b>Health Monitoring</b>					
Monitoring of any IP-addressable device	No	Yes	Yes	Yes	Yes
Link monitoring (Layer 2)	No	Yes	Yes	Yes	Yes
ICMP ping verification (Layer 3)	No	Yes	Yes	Yes	Yes
TCP connection verification (Layer 4)	No	Yes	Yes	Yes	Yes
Active content verification for HTTP, Https, FTP	No	Yes	Yes	Yes	Yes
SNMP alarm/traps	No	Yes	Yes	Yes	Yes
<b>Accounting</b>					
7-tuple classification	Yes	Yes	Yes	Yes	Yes
Real-time counting of packets or bytes	Yes	Yes	Yes	Yes	Yes
Number of Accounting classes	32	32	512	1,024	1,024