

VigorFamily Series

	WiFi router	Vigor2110 series			Vigor2130 series					
	Fly 200	2110	2110n	2110Vn	2130	2130n	2130Vn	2910	2910G	2910i
Dual-WAN										
Load-Balance								✓	✓	✓
Fail-Over								✓	✓	✓
BoD (Bandwidth on Demand)								✓	✓	✓
LAN	4-Port 10/100 Switch	4-Port 10/100 Switch			4 Giga Port					
USB Port for Printer or 3.5G USB Modem or File System	3.5G/WiMAX /LTE	Printer /3.5G USB Modem /File System			Printer /3.5G USB Modem /File System					
ISDN										✓
Wireless	802.11n		802.11n	802.11n		802.11n	802.11n			Super G™
MAC Address Access Control	✓		✓	✓		✓	✓			✓
WEP / WPA / WPA2 Encryption	✓		✓	✓		✓	✓			✓
802.1X Authentication										✓
Wireless LAN Isolation	✓		✓	✓		✓	✓			✓
Wireless VLAN										✓
Multiple SSID	✓		✓	✓		✓	✓			
Wireless Rate Control	✓		✓	✓		✓	✓			✓
AP Discovery	✓		✓	✓		✓	✓			✓
WDS	✓		✓	✓		✓	✓			✓
WMM	✓		✓	✓		✓	✓			
VoIP										
Protocol	SIP, RTP / RTCP			✓			✓			
SIP Account				6			6			
FXS				2			2			
PSTN Loop-through				1						
ISDN S0 intern										
ISDN S0 extern										
ISDN Loop-through										
Codec	G.711, G.723.1, G.726, G.729			✓			✓			
DSP Features	G.168 Line Echo-Cancellation			✓			✓			
	Jitter Buffer (ms)			180ms			180ms			
	Caller ID			✓			✓			
FAX / Modem Support	G.711 Pass-through / T.38			✓			✓			
Supplemental Services	Internal Call									
	Call Hold / Retrieve / Waiting			✓			✓			
	Call Waiting with Caller ID			✓			✓			
	Call Forwarding (Always, Busy, No Answer)			✓			✓			
	DND (Do not Disturb) / Hotline			✓			✓			
	MWI (Message Waiting Indicator)			✓			✓			
DTMF Tone	Inband, Outband (RFC-2833), SIP Info			✓			✓			
DialPlan	Phone Book / Digit Map			✓			✓			
	Call Barring			✓			✓			
VPN										
Tunnel		2	2	2	2	2	2	32	32	32
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encryption	AES	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DES / 3DES	✓	✓	✓	✓	✓	✓	Hardware	Hardware	Hardware
	MPPE	✓	✓	✓	✓	✓	✓	✓	✓	✓
Authentication	MD5, SHA-1	✓	✓	✓	✓	✓	✓	✓	✓	✓
IKE Authentication	Pre-shared Key	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Digital Signature	✓	✓	✓	✓	✓	✓	✓	✓	✓
NAT-Traversal		✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP over IPSec		✓	✓	✓	✓	✓	✓	✓	✓	✓
VPN Backup								✓	✓	✓
VPN Load-Balance										
Bandwidth Management										
Policy-based QoS		✓	✓	✓	✓	✓	✓	✓	✓	✓
Bandwidth / Session Limitation		✓	✓	✓	✓	✓	✓	✓	✓	✓
Firewall										
Object-based Firewall		✓	✓	✓	✓	✓	✓	✓	✓	✓
Policy-based IP Filter		✓	✓	✓	✓	✓	✓	✓	✓	✓
DoS / DDoS Prevention	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bind IP to MAC Address		✓	✓	✓	✓	✓	✓	✓	✓	✓
E-Mail Alert	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CSM (Content Security Management)		✓	✓	✓	✓	✓	✓	✓	✓	✓
SSL VPN										
Web Application										
Tunnel Mode										

VigorFamily Series

		ADSL modem	Vigor2710e series				
		Vigor120	2710e	2710ne	2700	2700G	2700Gi
xDSL							
ADSL	G.992.1 (G.dmt)	✓	✓	✓	✓	✓	✓
	G.992.2 (G,lite)	✓	✓	✓	✓	✓	✓
	T1.413 issue 2	✓	✓	✓	✓	✓	✓
ADSL2	G.992.3 (G,dmt.bis)	✓	✓	✓	✓	✓	✓
ADSL2+	G.992.5	✓	✓	✓	✓	✓	✓
	Annex M & Annex L	✓	✓	✓	✓	✓	✓
SDSL	G.991.2						
LAN		1-Port	4-Port 10/100 Switch				
USB Port for Printer or 3.5G USB Modem or File System							
ISDN							Annex B
Wireless						802.11g	802.11g
MAC Address Access Control				✓		✓	✓
WEP / WPA / WPA2 Encryption				✓		✓	✓
802.1X Authentication							
Wireless LAN Isolation				✓		✓	✓
Wireless VLAN							
Wireless Rate Control							
Multiple SSIDs						✓	✓
AP Discovery				✓		✓	✓
WDS				✓		✓	✓
WMM				✓		✓	✓
VoIP							
Protocol	SIP, RTP / RTCP						
SIP Account							
FXS							
PSTN Loop-through							
ISDN S0 intern							
ISDN S0 extern							
ISDN Loop-through							
Codec	G.711, G.723.1, G.727, G.729						
DSP Features	G.168 Line Echo-Cancellation						
	Jitter Buffer (ms)						
	Caller ID						
FAX / Modem Support							
G.711 pass-through / T.38							
Internal Call							
Supplemental Services	Call Hold / Retrieve / Waiting / Transfer						
	Call Waiting with Caller ID						
	Call Forwarding (Always, Busy, No Answer)						
	DND (Do not Disturb) / Hotline						
	MWI (Message Waiting Indicator)						
	DTMF Tone	Inband, Outband (RFC-2833), SIP Info					
DialPlan	Phone Book / Digit Map / Call Barring						
VPN							
Tunnel				2	2	2	
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec			✓	✓	✓	
Encryption	AES			✓	✓	✓	
	DES / 3DES			✓	✓	✓	
Authentication	MPPE			✓	✓	✓	
	MDS, SHA-1			✓	✓	✓	
IKE Authentication	Pre-shared Key			✓	✓	✓	
	Digital Signature			✓	✓	✓	
NAT-Traversal				✓	✓	✓	
DHCP over IPSec				✓	✓	✓	
Bandwidth Management							
Policy-based QoS					✓	✓	✓
Bandwidth / Session Limitation		✓			✓	✓	✓
Firewall							
Policy-based IP Filter			✓	✓	✓	✓	✓
DoS / DDoS Prevention		✓	✓	✓	✓	✓	✓
IM / P2P Blocking					✓	✓	✓
Bind IP to MAC Address		✓	✓	✓	✓	✓	✓
Content Filter	URL		✓	✓	✓	✓	✓
	Web		✓	✓	✓	✓	✓
E-Mail Alert			✓	✓	✓	✓	✓
Object-based Firewall		✓					
CSM (Content Security Management)							
Management							
HTTP / HTTPS		✓	✓	✓	✓	✓	
Telnet / SSH			Telnet	Telnet	SSH*	SSH*	SSH*
TR-069		✓	✓	✓	By Project	By Project	By Project
TR-104							

VigorFamily Series

		Vigor3100 series					Vigor2750 series		Vigor2850 series		
		3100	3100G	3100i	3100V	3120	2750	2750n	2850	2850n	2850Vn
xDSL											
ADSL	G.992.1 (G.dmt)								✓	✓	✓
	G.992.2 (G,lite)								✓	✓	✓
	T1.413 issue 2								✓	✓	✓
SDSL	G.991.2	✓	✓	✓	✓	✓					
VDSL1	G.993.1								✓	✓	✓
	T1.424								✓	✓	✓
	TS 101 270								✓	✓	✓
VDSL2	G.993.2						✓	✓	✓	✓	
LAN		4-Port Switch					4 Giga Port		4 Giga Port		
USB Port for Printer or 3.5G USB Modem or File System		Printer /3.5G USB Modem					Printer /3.5G USB Modem /File System		Printer /3.5G USB Modem /File System		
ISDN				✓							
Wireless			Super G™					802.11n		802.11n	802.11n
MAC Address Access Control			✓				✓		✓	✓	
WEP / WPA / WPA2 Encryption			✓				✓		✓	✓	
802.1X Authentication			✓						✓	✓	
Wireless LAN Isolation			✓				✓		✓	✓	
Wireless VLAN			✓								
Wireless Rate Control			✓				✓		✓	✓	
Multiple SSIDs			✓				✓		✓	✓	
AP Discovery			✓				✓		✓	✓	
WDS			✓				✓		✓	✓	
WMM							✓		✓	✓	
VoIP											
Protocol	SIP, RTP / RTCP				✓						
SIP Account					6					12	
FXS					2					2	
PSTN Loop-through										✓	
ISDN S0 intern											
ISDN S0 extern											
ISDN Loop-through											
Codec	G.711, G.723.1, G.727, G.729				✓					✓	
DSP Features	G.168 Line Echo-Cancellation				✓					✓	
	Jitter Buffer (ms)				125ms					180ms	
	Caller ID				✓					✓	
FAX / Modem Support	G.711 pass-through / T.38				✓					✓	
Supplemental Services	Internal Call				✓					✓	
	Call Hold / Retrieve / Waiting / Transfer				✓					✓	
	Call Waiting with Caller ID				✓					✓	
	Call Forwarding (Always, Busy, No Answer)				✓					✓	
	DND (Do not Disturb) / Hotline				✓					✓	
	MWI (Message Waiting Indicator)				✓					✓	
	DTMF Tone	Inband, Outband (RFC-2833), SIP Info				✓					✓
DialPlan	Phone Book / Digit Map / Call Barring				✓					✓	
VPN											
Tunnel		32	32	32	32	32	2	2	32	32	32
Protocol	PPTP, L2TP, IPSec, L2TP over IPSec	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Encryption	AES	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	DES / 3DES				Hardware		✓	✓		Hardware	
	MPPE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Authentication	MDS, SHA-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	
IKE Authentication	Pre-shared Key	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Digital Signature	✓	✓	✓	✓	✓	✓	✓	✓	✓	
NAT-Traversal		✓	✓	✓	✓	✓	✓	✓	✓	✓	
DHCP over IPSec		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bandwidth Management											
Policy-based QoS		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Bandwidth / Session Limitation		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Firewall											
Policy-based IP Filter		✓	✓	✓	✓	✓					
DoS / DDoS Prevention		✓	✓	✓	✓	✓	✓	✓	✓	✓	
IM / P2P Blocking		✓	✓	✓	✓	✓					
Bind IP to MAC Address		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Content Filter	URL	✓	✓	✓	✓	✓	✓	✓			
	Web	✓	✓	✓	✓	✓	✓	✓			
E-Mail Alert		✓	✓	✓	✓	✓	✓		✓	✓	
Object-based Firewall		✓	✓	✓	✓	✓	✓	✓	✓	✓	
CSM (Content Security Management)							✓	✓	✓	✓	
Management											
HTTP / HTTPS		✓	✓	✓	✓	✓	✓	✓	✓	✓	
Telnet / SSH		SSH*	SSH*	SSH*	SSH*	SSH*	✓	✓	✓	✓	
TR-069							✓	✓	✓	✓	
TR-104										By Project	
Future release											

IPPBX Series

	Vigor IPPBX 2820 series		Vigor IPPBX
	2820	2820n	3510
IP PBX			
SIP Account	50	50	100
Registration and Authentication	✓	✓	✓
BLF (Busy-lamp Field) (Work with VigorPhone350)	✓	✓	✓
Hunting Group	✓	✓	✓
IVR	✓	✓	✓
Calendar	✓	✓	✓
Dial Plan (Digi Map)	✓	✓	✓
Session Monitor	✓	✓	✓
Call Detail Records	✓	✓	✓
DID	✓	✓	✓
Extension Privilege Assign	✓	✓	✓
PIN Code Control	✓	✓	✓
Call Barring	✓	✓	✓
Call Routing	✓	✓	✓
Call Park*	✓	✓	✓
Call Pickup	✓	✓	✓
In/Outbond Call Through FXO Interface*	✓	✓	✓
In/Outbond Call Through ISDN-TE Interface	✓	✓	✓
User-defined Prompts	✓	✓	✓
Automated Attendant	✓	✓	✓
Voice Message to Email	✓	✓	✓
Voice Mail	✓	✓	✓
MWI (Message Waiting Indicator)	✓	✓	✓
Music on Hold	✓	✓	✓
1 Conference Bridge*			✓
VoIP			
FXS	1	1	4 FXS, 4 FXO
PSTN Loop-through	✓	✓	
ISDN S0 intern	Up to 2	Up to 2	Up to 8
ISDN S0 extern	Up to 2	Up to 2	Up to 8
ISDN Loop-through			
Codec	G.711, G.723.1, G.727, G.729, iLBC	✓	✓
DSP Features	G.168 Line Echo-Cancellation	✓	✓
	Jitter Buffer (ms)	180ms	180ms
	Caller ID	✓	✓
xDSL			
ADSL	G.992.1 (G.dmt)	✓	✓
	G.992.2 (G.lite)	✓	✓
	T1.413 issue 2	✓	✓
ADSL2	G.992.3 (G.dmt.bis)	✓	✓
ADSL2+	G.992.5	✓	✓
	Annex M & Annex L	✓	✓
LAN			
	1 Giga Port + 3 10/100 Port		4 10/100 Port
USB Port for Printer or 3.5G USB Modem or File System			
	Printer /3.5G USB Modem /File System		USB 2.0 Storage
ISDN			
	✓	✓	All 4 TE, 2TE / 2NT
Management			
HTTP / HTTPS	✓	✓	✓
Telnet / SSH	✓	✓	✓
TR-069	✓	✓	✓
TR-104	✓	✓	✓

Fiber Series

	Vigor2110F series			Vigor2130F series			Vigor2920F series			Vigor3200F
	2110F	2110Fn	2110FVn	2130F	2130Fn	2130FVn	2920F	2920Fn	2920FVn	3200F
Fiber Interface	1-SFF			1-SFP			1 Giga WAN + 1 SFP			1-SFP
Dual-WAN										4 Giga WAN
Load-Balance							✓	✓	✓	✓
Fail-Over							✓	✓	✓	✓
BoD (Bandwidth on Demand)							✓	✓	✓	✓
LAN	4-Port 10/100 Switch			4 Giga Port			4 Giga Port			4 Giga Port
USB Port for Printer or 3.5G USB Modem or File System	Printer /3.5G USB Modem			Printer /3.5G USB Modem			Printer /3.5G USB Modem			Printer /3.5G USB Modem
ISDN										
Wireless		802.11n	802.11n		802.11n	802.11n		802.11n	802.11n	
MAC Address Access Control		✓	✓		✓	✓		✓	✓	
WEP / WPA / WPA2 Encryption		✓	✓		✓	✓		✓	✓	
802.1X Authentication								✓	✓	
Wireless LAN Isolation		✓	✓		✓	✓		✓	✓	
Wireless VLAN										
Multiple SSID		✓	✓		✓	✓		✓	✓	
Wireless Rate Control		✓	✓		✓	✓		✓	✓	
AP Discovery		✓	✓		✓	✓		✓	✓	
WDS		✓	✓		✓	✓		✓	✓	
WMM		✓	✓		✓	✓		✓	✓	
VoIP										
Protocol		SIP, RTP / RTCP								
SIP Account			6			6			6	
FXS			2			2			2	
PSTN Loop-through			1						1	
ISDN S0 intern										
ISDN S0 extern										
ISDN Loop-through										
Codec		G.711, G.723.1, G.727, G.729								
DSP Features		G.168 Line Echo-Cancellation								
		Jitter Buffer (ms)		180ms		180ms			180ms	
		Caller ID								
FAX / Modem Support		G.711 Pass-through / T.38								
Supplemental Services		Internal Call								
		Call Hold / Retrieve / Waiting								
		Call Waiting with Caller ID								
		Call Forwarding (Always, Busy, No Answer)								
		DND (Do not Disturb) / Hotline								
		MWI (Message Waiting Indicator)								
DTMF Tone		Inband, Outband (RFC-2833), SIP Info								
DialPlan		Phone Book / Digit Map								
		Call Barring								
VPN										
Tunnel		2	2	2	2	2	2	32	32	32
Protocol		PPTP, L2TP, IPSec, L2TP over IPSec								
Encryption		AES						Hardware		Hardware
		DES / 3DES						Hardware		Hardware
		MPPE								
Authentication		MD5, SHA-1								
IKE Authentication		Pre-shared Key								
		Digital Signature								
NAT-Traversal		✓	✓	✓	✓	✓	✓	✓	✓	✓
DHCP over IPSec		✓	✓	✓	✓	✓	✓	✓	✓	✓
VPN Backup										
VPN Load-Balance										
Bandwidth Management										
Policy-based QoS		✓	✓	✓	✓	✓	✓	✓	✓	✓
Bandwidth / Session Limitation		✓	✓	✓	✓	✓	✓	✓	✓	✓
Firewall										
Object-based Firewall		✓	✓	✓	✓	✓	✓	✓	✓	✓
Policy-based IP Filter		✓	✓	✓	✓	✓	✓	✓	✓	✓
DoS / DDoS Prevention		✓	✓	✓	✓	✓	✓	✓	✓	✓
Bind IP to MAC Address		✓	✓	✓	✓	✓	✓	✓	✓	✓
E-Mail Alert		✓	✓	✓	✓	✓	✓	✓	✓	✓
CSM (Content Security Management)		✓	✓	✓	✓	✓	✓	✓	✓	✓

Fiber Series(Project base)

Unified Security Firewall

	VigorPro 5300 series					VigorPro 5510 series	
	5300	5300n	5300Vn	5300VS	5300VSn	5510	5510Gi
Dual-WAN							
Load-Balance	✓	✓	✓	✓	✓	✓	✓
Fail-Over	✓	✓	✓	✓	✓	✓	✓
BoD (Bandwidth on Demand)	✓	✓	✓	✓	✓	✓	✓
LAN	4-Port Switch					5 Giga Port	
USB Port							
Printer Server						✓	✓
3.5G USB modem						✓	✓
Wireless		802.11n	802.11n		802.11n		Super G™
MAC Address Access Control		✓	✓		✓		✓
WEP/WPA/WPA2 Encryption		✓	✓		✓		✓
802.1X Authentication		✓	✓		✓		✓
Wireless LAN Isolation		✓	✓		✓		✓
Wireless VLAN							✓
Multiple SSID		✓	✓		✓		✓
Wireless Rate Control		✓	✓		✓		✓
AP Discovery		✓	✓		✓		✓
WDS		✓	✓		✓		✓
Anti-Virus							
Scan SMTP, POP3, HTTP, IMAP, FTP	✓	✓	✓	✓	✓	✓	✓
Scan ZIP / GZIP / BZIP2	✓	✓	✓	✓	✓	✓	✓
Scan encrypted VPN tunnels	✓	✓	✓	✓	✓	✓	✓
Automatic virus signature update	✓	✓	✓	✓	✓	✓	✓
Automatic alert when signature update service expires	✓	✓	✓	✓	✓	✓	✓
Real-time e-mail / syslog alert when virus is detected	✓	✓	✓	✓	✓	✓	✓
Anti-Intrusion							
Rule-based detection list	✓	✓	✓	✓	✓	✓	✓
Pass / block / reset when intrusion is detected	✓	✓	✓	✓	✓	✓	✓
Automatic intrusion signature update	✓	✓	✓	✓	✓	✓	✓
Automatic alert when signature update service expires	✓	✓	✓	✓	✓	✓	✓
Real-time e-mail / syslog alert when under attack	✓	✓	✓	✓	✓	✓	✓
Supplemental Services	✓	✓	✓	✓	✓	✓	✓
Anti-Spam							
Scan SMTP/POP3	✓	✓	✓	✓	✓	✓	✓
Real-time e-mail/Syslog alert	✓	✓	✓	✓	✓	✓	✓
Black/White list	✓	✓	✓	✓	✓	✓	✓
VoIP							
Protocol			SIP, RTP / RTCP				
SIP Account			12	12	12		
FXS			2	2	2		
ISDN S0			Up to 2	Up to 2	Up to 2		
ISDN On-net / Off-net / Loop-through			✓	✓	✓		
Codec			G.711, G.723.1, G.727, G.729, VAD / CNG				
DSP Features			G.168 Line Echo-Cancellation				
			Jitter Buffer (ms)	125ms	125ms	125ms	
FAX / Modem Support			Caller ID	✓	✓	✓	
			G.711 pass-through / T.38	✓	✓	✓	
Supplemental Services			Internal Call	✓	✓	✓	
			Call Hold / Retrieve / Waiting / Transfer	✓	✓	✓	
			Call Waiting with Caller ID	✓	✓	✓	
			Call Forwarding (Always, Busy, No Answer)	✓	✓	✓	
			DND (Do not Disturb) / Hotline	✓	✓	✓	
			MWI (Message Waiting Indicator)	✓	✓	✓	
DTMF Tone			Inband, Outband (RFC-2833), SIP Info	✓	✓	✓	
DialPlan			Phone Book / Digit Map / Call Barring	✓	✓	✓	
VPN							
Tunnel	100	100	100	100	100	200	200
Protocol	✓	✓	PPTP, L2TP, IPSec, L2TP over IPSec	✓	✓	✓	✓
Encryption			AES / DES / 3DES	Hardware			Hardware
			MPPE	✓	✓	✓	✓
Authentication			MD5, SHA-1	Hardware			Hardware
IKE Authentication	✓	✓	Pre-shared Key / Digital Signature	✓	✓	✓	✓
NAT-Traversal	✓	✓		✓	✓	✓	✓
DHCP over IPSec	✓	✓		✓	✓	✓	✓
VPN Backup & VPN loadbalance	✓	✓		✓	✓	✓	✓
Bandwidth Management							
Policy-based QoS	✓	✓	✓	✓	✓	✓	✓
Bandwidth / Session Limitation	✓	✓	✓	✓	✓	✓	✓
Firewall							
Object-based Firewall	✓	✓	✓	✓	✓	✓	✓
DoS / DDoS Prevention	✓	✓	✓	✓	✓	✓	✓
CSM (Content Security Management)	✓	✓	✓	✓	✓	✓	✓
SSL VPN							
Web Application	✓	✓	✓	✓	✓	✓	✓
Tunnel mode	✓	✓	✓	✓	✓	✓	✓

* Firmware Upgradeable