Vigor2110F Series

FTTH Router

- 4-Port 10/100BaseT ethernet switch for PC/Mac connection
- Object-based firewall preventing external attacks
- USB 2.0 for different application scenarios
- Comprehensive VPN facilities provide remote data access
- 802.11n improves the wireless speed and coverage (n models)
- VoIP facilities for low cost calls (V models)

With booming deployment of Fiber, the realization of affordable fatter broadband for home multimedia is feasible.

For FTTH (fiber to home), the Vigor2110FVn is a FTTH CPE with IP services. The embedded SFF optical connector can be customized for single or dual fiber which is provided by carriers. Under 10/100Mbps -Fiber-speed feed, the bandwidth management offers home/home offices flexible utilization of file downloading, video streaming, multi-media applications, and VoIP calls. The wireless LAN isolation, Mac address control and WEP/WPA/WPA2 encryption let you establish secure WLAN network to extend mobility. Along with WMM (Wi-Fi Multimedia), it can keep the priority of voice, video and audio applications in a Wi-Fi network. The bandwidth allocated for video, and when traffic conditions change, the video traffic will maintain its allocated bandwidth, whereas the remaining bandwidth is shared by non-priority traffic.

While people pursue the balance of work and life, the time of commuting from home to office is critical. The integrated VPN functionalities of Vigor2110FVn will let you stay connected with work but can also reserve valuable time for family and friends. Its comprehensive IPSec/PPTP/L2TP/L2TP over IPSec- protocol can easily set up encrypted remote access and LAN-to-LAN.

As 3.5G mobile network gets popular and affordable, you can connect 3.5G USB mobile to 2.0 version USB port on Vigor2110FVn. This can be used for your primary Internet feed while you are at car, on bus, at summer house, or staying at outdoor events. In addition, the 3.5G USB mobile can be a backup broadband connection if primary fixed line drops. You can connect USB disk or hard-drive to USB port for file sharing. The Vigor2110FVn provides FTP access file uploading/downloading which can be from the local LAN or from anywhere on the Internet. If you want to share photo with your friends, you can let your friends download your photo because you deploy file depository on Vigor2110FVn. The access can be using "username and password" or 'public'. Each of which can have their own directories and/or file access rights.

Moreover, the Vigor2110FVn offers home/home office users business-class robust firewall. The CSM (content security management) can prevent family or home office from the connection to Web sites that contain illegal or objectionable content. The use of bandwidth consuming Peer-to-Peer (P2P) applications can be properly managed by DrayTek Content Security Management (CSM) and object-based firewall management.

DrayTek also offers following series --Vigor2110F, Vigor2110FV, Vigor2110Fn . Vigor2110F is FTTH router. Vigor2110FV is FTTH router with VoIP. The Vigor2110Fn is FTTH router with 802.11n (Draft n) WLAN. About the single fiber or dual fiber, the requirements can be customized for system integrators and ISP/Telcos in accordance with deployment.

Fiber (WAN)

- SFF Optical Connector
- Single or Dual Fiber
- 10/100 Mbps Single or Multi Mode

LAN

- Port-based VLAN
- VLAN Groups: 4 VLAN Groups
- 4-port 10/100 M Ethernet Switch
  - IEEE 802.3 10 Base-T
  - IEEE 802.3u 100 Base-TX/FX

Firewall

- Multi-NAT, DMZ Host, Port-redirection and Open Port
- Object-based Firewall
- MAC Address Filter
- SPI (Stateful Packet Inspection)
- DoS/DDoS Prevention
- IP Address Anti-spoofing
- E-Mail Alert and Logging via Syslog
- Bind IP to MAC Address
- Time Schedule Control

USB

- 3.5G USB Modem as 2nd WAN
- Printer Sharing
- File Sharing*:
  - Support FAT32/FAT16 System*
  - Support FTP Function for File Sharing*
  - Support Samba for Windows File Sharing*

Firewall   USB   VPN   Wireless   VoIP

Network Feature

- IGMP Proxy/ Snooping
- DHCP Client/Relay/Server
- Dynamic DNS
- NTP Client
- Call Scheduling
- RADIUS Client
- DNS Cache/Proxy
- UPnP
- Routing Protocol:
  - Static Routing   • RIP V2

Bandwidth Management

- IEEE802.1p Priority
- QoS:
  - Guarantee Bandwidth for VoIP
  - Class-based Bandwidth Guarantee by User-defined Traffic Categories
  - DiffServ Code Point Classifying
  - 4-level Priority for Each Direction (Inbound/Outbound)
  - Bandwidth Borrowed
- Bandwidth/Session Limitation

Content Security Management

- IM/P2P Applications Blocking
- URL Keyword Filter (Whitelist and Blacklist)
- Web Content Filter

Network Management

- Web-Based User Interface (HTTP/HTTPS)
- Quick Start Wizard
- CLI (Command Line Interface, Telnet/SSH)
- Administration Access Control
- Configuration Backup/Restore
- Built-in Diagnostic Function
- Firmware Upgrade via TFTP/FTP/WUI/TR-069
- Logging via Syslog
- SNMP Management MIB-II
- Management Session Timeout
- IEEE802.1q Tag VLAN
- Priority Queues: 4 Queues
- TR-069
- 2 Level Management

VoIP (V Models)

- Protocols: SIP, RTP/RTCP
- 6 SIP Registrars
- Automatic Gain Control
- Jitter Buffer (180ms)
- Codec:
  - G.711 A/u Law   • G.723.1   • G.726
  - G.729 A/B   • iLBC *   • VAD/CNG
  - G.168 Line Echo-cancellation
- DTMF Relay:
  - In Band   • Out Band (RFC-2833)   • SIP Info
- FAX/Modem Support:
  - G.711 Pass-through   • T.38 for FAX*
- Supplemental PBX Functions:
  - Call Hold/Retrieve
  - Call Waiting
  - Call Waiting with Caller ID
  - Call Transfer
  - Call Forwarding (Always, Busy or No Answer)
  - DND (Do Not Disturb)
  - MWI (Message Waiting Indicator; RFC-3842)
  - Hotline
  - Three-way Conference Call*

VPN

- Up to 2 VPN Tunnels
- Protocol: PPTP, IPSec, L2TP, L2TP over IPSec
- Encryption: AES, MPPE and DES/3DES
- Authentication: MD5, SHA-1
- IKE Authentication: Pre-shared Key and Digital Signature (X.509)
- LAN-to-LAN, Teleworker-to-LAN
- DHCP over IPSec
- Dead Peer Detection (DPD)
- VPN Pass-through

Wireless AP (n Models)

- IEEE802.11n Draft 2.0 Compliant
- Wireless Client List
- Access Point Discovery
- WDS (Wireless Distribution System)
- Wireless LAN Isolation
- Wireless Rate Control
- 64 /128-bit WEP
- WPA /WPA2
- MAC Address Access Control
- WPS
- Hidden SSID
- Multiple SSID
- WMM (Wi-Fi Multimedia)

Hardware Interface

- 4 x 10/100 M LAN Switch, RJ-45
- 1 x Fiber, SFF
- 2 x FXS, RJ-11 (V models)
- 1 x Line, RJ-11 (V models)
- 3 x Detachable Antenna (n models)
- 1 x Factory Reset Button
- 1 x Wireless on/off Button (n models)
- 1 x WPS Button (n models)
- 1 x USB Host 2.0 (for Printer/3.5G USB Modem /File Sharing*)

*Firmware Upgradable

	VoIP	WLAN
Vigor2110FVn	●	●
Vigor2110FV	●	●
Vigor2110Fn		●
Vigor2110F		

Triple Play

- Video VLAN:1
- VoIP VLAN:2
- Data VLAN:3

VoIP   Internet
Internet
STB
IPTV   Online Game
Fiber   Vigor2110F   Home