

Wireless Broadband Routers							
Model	WNRT-300	WNRT-617G	WNRT-617	WNRT-627	WNRT-633	WDRT-731U	WDRT-1200AC
Product Image		 4G					
Ethernet	WAN Interface LAN Interface	1x10/100TX (configurable)	1x10/100TX 4x1000T	1x100TX 4x100TX	1x100TX 4x100TX	1x1000T 4x1000T	1 X 1000T 4 X 1000T
Wireless	Standard	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11a/b/g/n	IEEE 802.11a/b/g/n/ac
	Max. Data Rate	150Mbps	150Mbps	150Mbps	300Mbps	300+300Mbps	1200Mbps
	MIMO System	1T1R	1T1R	1T1R	2T2R	2T2R	2T2R
Wireless	Antenna	2dB	5dB detachable 1 x RP-SMA	5dB Omni fixed	5dB Omni fixed	5dB Omni detachable	5dB Omni fixed
	Max. Range	Indoor: 100m Outdoor: 300m	Indoor: 100m Outdoor: 300m	Indoor: 100m Outdoor: 300m	Indoor: 100m Outdoor: 300m	Indoor: 100m Outdoor: 300m	Indoor: 100m Outdoor: 300m
	Max. TX Power	18dBm	18dBm	18dBm	18dBm	20dBm	17dBm
Hardware	Mobile Network	-	UMTS/HSPA/EVDO	-	-	-	-
	USB	mini-USB for power/ charging	USB for 3G dongle	-	-	File/Printer	USB for storage
Wireless Operating Mode	Access Point	●	●	●	●	●	●
	Client	●	-	-	-	-	-
	Bridge	●	●	●	●	●	●
	Repeater (WDS)	●	●	●	●	●	●
	Universal Repeater (AP+Client)	●	-	●	●	●	-
Wireless Security	WISP	●	-	●	●	●	-
	WEP	●	●	●	●	●	●
	WPA / WAP2-PSK	●	●	●	●	●	●
	WPA / WPA2	●	●	●	●	●	●
	802.1X	●	●	●	●	-	-
WAN Mode	WPS	●	●	●	●	●	●
	Dynamic IP	●	●	●	●	●	●
	Static IP	●	●	●	●	●	●
Advanced Features	PPPoE / PPTP / L2TP	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●
	Multiple SSIDs	● (Up to 4)	-	-	-	● (Up to 4)	● (Up to 6)
	802.1Q VLAN	●	-	-	-	-	-
	AP Isolation	●	●	●	●	●	●
	WMM	●	●	●	●	●	●
	SPI Firewall	●	●	●	●	●	●
	DMZ	●	●	●	●	●	●
	VPN Passthrough	●	●	●	●	●	●
	SNMP	-	-	-	-	-	-
	IAPP (Roaming)	●	●	●	●	●	●
Operating Temperature	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C	0 ~ 40 °C	0 ~ 45 °C
Power System	5V DC, Built-in Battery	12V DC	9V DC	9V DC	12V DC	12V DC	12V DV

Long Reach PoE Ethernet					
Model	LRP-822CS	LRP-101CE	LRP-101UH	LRP-101UE	
Product Image					
Ethernet Interfaces	10/100BASE-TX 10/100/1000BASE-T 1000BASE-SX/LX	- 2 x RJ45 2 x SFP slot	1 x RJ45 w/ PoE PSE -	1 x RJ45 w/ PoE PD -	
	Cabling	Copper: Cat5e or above Fiber: multi-mode 50/125um, Single mode 9/125um	Cat5e or above	Cat5e or above	Cat5e or above
	Maximum Distance	Copper: 100m Fiber: vary on SFP module; up to 120km	100m	100m	100m
	Connectivity	8 x BNC female	1 x BNC female (PD)	1 x RJ45 Copper (PSE)	1 x RJ45 Copper (PD)
	Cabling	Coaxial cable: 75ohm	Coaxial cable: 75ohm	Copper: 4-pair or 1-pair UTP	Copper: 4-pair or 1-pair UTP
Long Reach PoE Interfaces	Maximum Distance	1000m	1000m	500m	500m
	Data Rate	200m: 75Mbps/81Mbps (Download/Upload) 1000m: 31Mbps/38Mbps (Download/Upload)	200m: 93Mbps/93Mbps 1000m: 55Mbps/73Mbps	200m: 94Mbps/94Mbps 500m: 30Mbps/30Mbps	200m: 94Mbps/94Mbps 500m: 30Mbps/30Mbps
	Power Output	54V DC over coaxial, 36 watts max.	-	48~56V DC, 36 watts max.	
	Total Power Budget	240 watts max.	-	36 watts max.	
	Encryption	AES128-bit	AES128-bit	AES128-bit	
PoE Ability	PoE Standard	Power over coaxial	802.3af/802.3at	Power over UTP	802.3af/802.3at
	PoE Port	8	1 x RJ45	1 x UTP	1 x RJ45
	PoE Power Output	54V DC	56V DC, 600mA max.	41~56V DC	48~56V DC, 600mA max.
Intelligent Power Control	Over Temperature Protection	●	-	-	-
	PD Alive Check	●	-	-	-
	PoE Schedule	●	-	-	-
	Power Limit	●	-	-	-
Protocols	Scheduled Power Recycling	●	-	-	-
	VLAN	802.1Q, Q-in-Q, Voice VLAN, Private VLAN	-	-	-
	Spanning Tree	802.1D/802.1w/802.1s	-	-	-
Management	IGMP Snooping	v1, v2, v3	-	-	-
	Interface	Console, Telnet, HTTP	-	-	-
	SNMP	v1, v2c, v3, trap	-	-	-
Physical	SSH/SSL	● / ●	-	-	-
	Dimensions (W x D x H)	440 x 300 x 44mm	94 x 70 x 26mm	94 x 70 x 26mm	94 x 70 x 26mm
	Power Requirements	100~240V AC, 50/60Hz	37~56V DC PoC	DC: 48~56V DC PoE: 802.3at input	37~56V DC PoU
Regulator	Operating Temperature	0~50 degrees C	-20~70 degrees C	-20~70 degrees C	-20~70 degrees C
	EMI/Safety	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE	FCC Class A, CE



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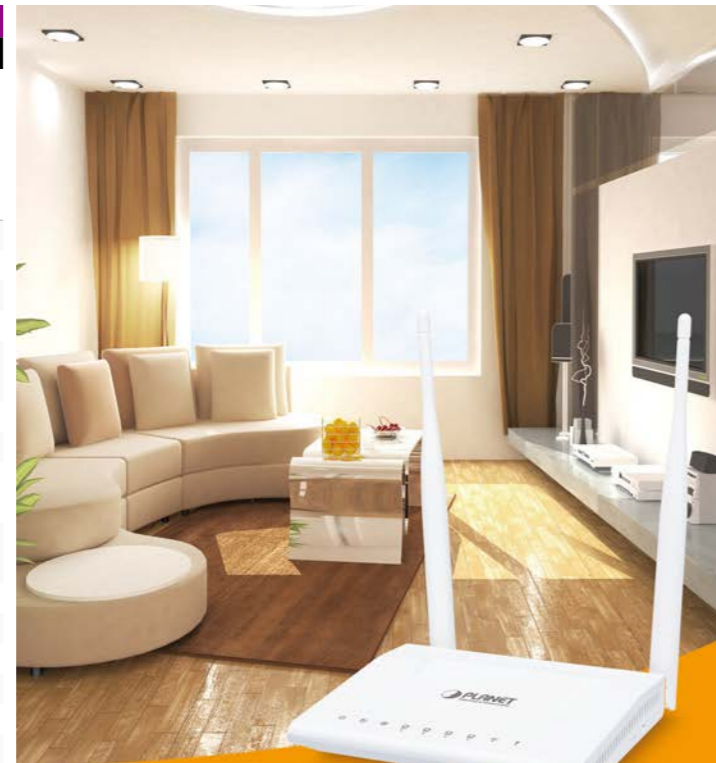
**ADSL 2+** **EPON** **VDSL2** **G.SHDSL**

**Broadband Communications**  
Scalability, Reliability, Flexibility

ADSL 2+ IP DSLAM			ADSL 2+ Routers		
Model	IDL-2402	IDL-4802	Model	ADE-3401	ADN-4102



Subscriber Interfaces	24-Port	48-Port	ADSL Feature	ADSL.ADSL2.ADSL2+	●	●
	Ethernet	Interface	1-Port 10/100 Switch	4-Port 10/100 Switch	–	–
Uplink Interfaces	1 x 1000BASE-T	2 x 1000BASE-T or 2 x SFP	Wireless Standard	–	–	–
Management Interfaces	1 x RS-232 Console	1 x 100BASE-TX, 1 x RS-232 Console	Wireless Antenna	–	–	–
DSL & POTS Interfaces	2 x Telco-50	4 x Telco-50	WEP/WPA/WPA2 Encryption	–	–	–
CLI Management	Console, Telnet, SSH	Console, Telnet, SSH	Multiple SSIDs	–	–	–
Web Management	●	●	WPS	–	–	–
Hardware/IP Stackable	– / ●	● / ●	VPN Passthrough	IPSec, PPTP, L2TP	●	●
QoS Traffic Priority (802.1p)	●	●	SPI (Stateful Packet Inspection)	–	–	–
IGMP V1/V2/V3	●	●	NAT	–	–	–
VLAN Bridge/Filtering	●	●	Access Control List	–	–	–
VPN Feature	●	●	Virtual Server/DMZ	–	–	–
MAC/IP Filtering	●	●	Anti-DoS	–	–	–
MAC/IP Access Control	●	●	IP/MAC Filter	–	–	–
Static/Port-based VLAN	●	●	Content Filter (URL, Web)	–	–	–
802.1X Authentication	●	●	IGMP Proxy	–	–	–
			DHCP Server	–	–	–
			Dynamic DNS (DDNS)	–	–	–
			PLANET DDNS	–	–	–
			SNTP Client	–	–	–
			UPnP	–	–	–
			Telnet Access	–	–	–
			SNMP	–	–	–
			TR-069	–	–	–
			IPv6	–	–	–
			IP QoS	–	–	–
			Max. Sessions	1024	2048	–
			Routing Protocol	–	–	–

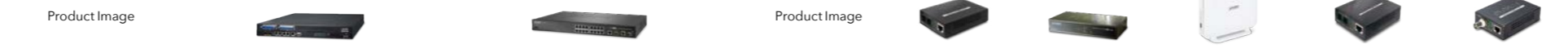


**Perfect FTTH Applications**  
300Mbps 802.11n Wireless Internet Fiber Router



**Video Phone    Online Gaming    IPTV (HD)**

VDSL2 IP DSLAM/LRE Switches		VDSL2 IP DSLAM/LRE Switches		VDSL2 Bridges/Routers/Switches					
Model	XDL-2420R	Model	VC-820M	Model	VC-231	VC-234	VDR-300NU	VC-201A	VC-202A



Subscriber Interface	24-Port	8-Port	LAN Port	1 x RJ45, 10/100Mbps	1 x RJ45, 10/100Mbps	4 x RJ45, 10/100Mbps	4 x RJ45, 10/100Mbps	1 x RJ45, 10/100Mbps
VDSL2 Interface	1 x Telco-50	8 x RJ-11	VDSL Port	1 x RJ11	1 x RJ11	1 x RJ11	1 x RJ11	1 x BNC
POTS Interface	1 x Telco-50	8 x RJ-11	Phone Port	1 x RJ11 by Splitter	1 x RJ11	1 x RJ11 by Splitter	1 x RJ11	–
10/100/1000T	2	2	VDSL Standard	ITU-T G.993.2 VDSL2				
1000SX/LX	2 (combo)	2 (Combo)	VDSL Profile	17a, 30a	17a, 30a	17a, 30a	17a	17a
VDSL Standard	ITU-T G.993.2 VDSL2		VDSL Profile	17a, 30a	17a, 30a	17a, 30a	17a	17a
VDSL Profile	8a, 8b, 8c, 12a, 12b, 17a and 30a		Maximum Speed (Downstream/Upstream)	100/100Mbps	100/100Mbps	100/100Mbps	100/60 Mbps	100/60 Mbps
Maximum Speed	30a: 100/100Mbps, 17a: 100/55Mbps		Maximum Distance	1400m	1400m	1400m	1500m	3000m
UPBO/DPBO	– / –		Wireless AP	–	–	802.11 a/b/g/n	–	–
Management	Web, CLI, Console		Port Mapping	–	–	–	–	–
SNMP	v1, v2c		Static Route	–	–	●	–	–
VLAN	Q-in-Q VLAN VLAN Pass-through		DHCP Server	–	–	●	–	–
Spanning Tree Protocol	–		DMZ	–	–	●	–	–
Multicast	IGMP v2		Virtual Server	–	–	●	–	–
QoS	Port-based QoS		NAT Firewall	–	–	●	–	–
Port Security	–		UPnP	–	–	●	–	–
Access Control List	L2/L3/L4		Web Manager	–	–	●	–	–
802.1X Authentication	–		SPI Firewall	–	–	–	–	–
Dimensions (W x D x H)	436 x 320 x 50		Port Filtering	–	–	–	–	–
Power	90-240V AC		IP Filtering	–	–	●	–	–
Redundant Power	Built-in-48V DC		MAC Filtering	–	–	●	–	–
Compatible PLANET CPE	VC-231, VC-234, VDR-300NU		URL Filtering	–	–	●	–	–

GEPON OLT		GEPON ONU		Broadband Routers		Wireless Broadband Routers		
Model	EPL-2000	Model	EPN-103	EPN-402NV	Model	XRT-401F	FRT-415N	WNAP-1260



Transmission Speed	Downstream: 1.25 Gbps Upstream: 1.25 Gbps	Transmission Speed	Downstream: 1.25Gbps Upstream: 1.25Gbps	Downstream: 1.25Gbps Upstream: 1.25Gbps	Ethernet	WAN Interface	1x10/100TX	1 x 100BASE-FX SFP slot	1x10/100TX (configurable)
Ethernet Port	2 x Gigabit SFP interface	Ethernet Port	1 x 10/100Mbps RJ45 Port 1 x 10/100/1000Mbps RJ45 Port	4 X 10/100Mbps RJ45 Port	VoIP	Interface	–	–	–
PON Port	2 x PON interface	PON Port	1 x PON interface with SC Type Connector	1 X PON interface with SC Type Connector	Wireless	MIMO System	–	2T2R	2T2R
Console Port	–	Maximum Distance	20km	20km	Antenna	–	–	2 x 5dBi fixed	–
Management Port	1 x 10/100 RJ45 port	IEEE 802.3ah	●	●	Wireless Operating Mode	–	–	AP	AP Router / Client / WDS PTP / WDS PTMP / Repeater / Universal Repeater
Maximum Splits	64 per PON port	IEEE 802.3ah FEC	●	●	Max. Data rate	–	–	300Mbps	300Mbps
Maximum Distance	20km	OAM	●	●	PPTP VPN Tunnels	–	–	–	–
IEEE 802.3ah	●	DBA	●	●	IPSec VPN Tunnels	–	–	–	–
IEEE 802.3ah FEC	●	SLA	●	●	VPN Passthrough	IPSec, PPTP, L2TP	–	–	●
OAM	●	802.1Q VLAN	●	●	VPN Authentication	–	–	–	–
DBA	●	802.1p QoS	●	●	VPN Encryption	–	–	–	–
SLA	●	IGMP	●	●	Maximum Concurrent Session	4095	45659	–	–
802.1Q VLAN	●	MAC Filtering	●	●	NAT Firewall	●	●	●	●
802.1p QoS	●	128-bit AES Encryption	–	–	SPI Firewall	●	●	●	●
IGMP	IGMP Proxy	802.1X Authentication	–	–	Content Filtering	URL Filtering	–	–	●
MAC Filtering	●	Logical Link IDs (LLID)	8	8	DMZ	●	●	●	●
128-bit AES Encryption	●	MAC Address	64	8	ACL (Access Control List)	●	●	●	●
802.1X Authentication	●	Queues	–	●	MAC/IP/Port Filtering	MAC/IP/Port	●/●/●	●	●
Logical Link IDs (LLID)	256	Integrated Buffering	1.5MB	–	DoS/DDoS Prevention	●	●	●	●
MAC Address	8K	Layer-2/3/4 Classification	●	●	Interface	Web	Web, TR-069	●	●
Queues	–	Internal MIB Counters	●	–	DHCP	Server/Client	–	●	●
GUI Management	●				DDNS	●	●	●	●
ONU Management	●				Internet Types	Dynamic/Static IP/PPPoE/PPTP/Big Pond Cable/ Dual Acces	PPPoE/ Dynamic IP/ Static IP/ Bridge	DHCP/Static IP/ PPPoE/PPTP/L2TP	–
Bandwidth Control	●				Virtual Server	●	●	●	●
					UPnP	●	●	●	●
					Bandwidth Management (QoS)	IP/Port based, DSCP	–	–	–
					Routing	Static Routing, RIPv1,2	●	●	●
					Outbound Load Balancing	–	–	–	–
					Dual WAN	–	–	–	–
					VLAN	●	802.1Q	–	–