



Technical Parameter

Module	Parameters
User interface	1 10/100/1000M RJ45 1 10/100M RJ45 2.4G WIFI 1* CATV
PON	EPON&GPON mode adaptive Interface Type:SC-APC/SC-UPC Network coverage radius: 20KM GPON: upstream 1.25Gbps /downstream 2.5Gbps Optical receive sensitivity:-7dBm~-28dBm Continuous light power: 0.5dBm~+5dBm EPON: upstream 1.25Gbps /downstream 1.25Gbps Optical receive sensitivity:-7dBm~-27dBm Continuous light power: 0dBm~4dBm
POTS Port	1*RJ11 with 3REN Max 1km distance Balanced Ring, 55V RMS
Size	140mm(L) ×90mm(W) ×30mm(H)
Environment	Operating temperature:0℃~60℃ Operating humidity:10%~85% (non-condensing) Storage temperature:-40℃~80℃ Storage humidity:5%~95% (non-condensing)
Power supply	12V/1A DC power interface size:2.1mm/5.5mm
Power	<8W
Management	WEB/TELNET/TR069/OMCI/OAM
CATV	Bandwidth 54-870MHz Output resistance 75 ohms

Key Features

Support device - based rate limitation and bandwidth control
In compliant with IEEE802.3ah & ITU-T G.984 standard
Wi - Fi series meet 802.11 b/g/n technical standards
Up to 20KM transmission distance
Support data encryption, group broadcasting ,etc.
Support Dynamic Bandwidth Allocation (DBA)
Support ONU auto - discovery/Link detection/remote upgrade of software
Support VLAN tag/untag configuration
Support ACL to configure data packet filter flexibly
Specialized design for system breakdown prevention to maintain stable system
Support software online upgrading
Support TR069 for ACS(Auto Config Server)
Support PPPoE/DHCP Server/NAT
Support broadband and CATV services
Support CATV service remote shutdown function

Voice Service Functions

- With the heartbeat function, support the main producing soft exchange platform
- Support ITU-T G.711, G.723.1, G.729 and other three kinds of compression
- Support high / low speed mode transparent transmission, T38 two fax
- Support POTS interface and the three party call, three party support local mixing
- Support POTS port GR909 line test function
- Support dynamic PPPoE, DHCP and static IP
- 7 * 24 hour call loss is less than or equal to 0.01%
- Support power - off alarm function ,easy for link problem detection
- Support port binding
- Support SIP (compatible with IMS), H.248, MGCP three VoIP protocol, and the soft switch platform the mainstream can be good intercommunication
- Support high-speed Modem (56Kbps) dial access; support RFC2833 and redundant RFC2833, ringing, MD5 certification, call forwarding, call waiting, the hotline, alarm clock, abbreviated dialing and other value-added services

WIFI Features(2.4G)

- W Fi Transmission Power <20dBm(2.4GHz)
- Wi-Fi Specification IEEE 802.11n compliant2.4GHz
- Full IEEE 802.11b/g legacy compatibility with enhanced performance
- Two-stream spatial multiplexing up to 300Mbps PHY data rates
- Support multi-SSID (Maximum 4 SSID)
- Support automatic channel selection
- Support hide SSID
- Support wireless security of 64/128bit WEP802.1x, WPA and WPA2
- Support hide SSID
- Support wireless security of 64/128bit WEP802.1x, WPA and WPA2

CATV

Category	Item name	Unit	Parameters	Remark
Optical input	Wavelength	nm	1100-1600	
	Input optical power	dbm	-15~0	
	Optical return loss	db	>45dB	
	AGC range	dbm	-10~0	
Link performance	CNR	db	>45dB	
	CTB	db	>60dB	
	CSO	db	>60dB	
RF output	RF Impedance	ohm	75	
	RF output return loss	db	>14dB	
	RF frequency Range	Mhz	47~1000	
	RF output lever	dBμV	80	

Ordering Information

Product Model	Descriptions
VILLATEL-110WC	1*10/100/1000M Ethernet interface(RJ45) 1*10/100M Ethernet interface(RJ45) 1 EPON or GPON adaptive interface 2.4G WIFI 1*CATV