Quidway® AR18-3X Series Routers

Product Overview

Quidway® AR18-3X Series Routers, developed by Huawei Technologies, are oriented to small office home office (SOHO) users. They include AR18-30E/31E/32E/33/33E/34/34E/35E models. AR18-3X Series Routers belong to xDSL routers and provide a new solution to high bandwidth-consuming small and medium-sized enterprises or some large branches and offices.

In the uplink direction, Quidway® AR18-3X Series Routers provide the ADSL/ADSL2+, G.SHDSL or ISDN interface, which can be directly connected to the equipment at the central office through one or two subscriber lines to provide broadband access services. The ISDN interface primarily functions as a backup interface.

 In the downlink direction, Quidway® AR18-3X Series Routers provide four 10/100BASE-T Ethernet interfaces. The interfaces provide Layer 2 data exchange and can implement port isolation.

The AR18-33/18-34/18-33E/18-34E is based on SHDSL access of ATM. The AR 18-33/34 supports single-pair wiring, and the AR 18-33E/34E support dual-pair wiring. The AR 18-30E/31E provides the ADSL2+ over POTS (Annex A standard) interface and the AR 18-32E/35E the ADSL2+ over ISDN (Annex B standard) interface. They provide symmetric uplink and downlink broadband leased line access over the twisted pair cables for those small and medium-sized enterprises and SOHO users, who is not capable of building their private networks or cannot afford high expenses of DDN communication. The AR 18-30E/31E/32E/35E has the switched Ethernet interface and support VLAN management.

Quidway® AR 18-3X Series Routers are illustrated as follows:

AR18-30E

AR18-31E

AR18-32E

AR18-33/18-33E

AR18-34/18-34E

AR18-35E

Features

Network Security

Quidway® AR 18-3X Series Routers provide abundant network security features, such as firewall, packet filtering, network address translation (NAT), authentication, authorization and accounting (AAA), and callback. Hence, users can select different security policies to build enterprise networks.

Building a VPN

Intranet virtual private network (VPN) interconnects the geographically dispersed branches of a company via public networks, as an extension and replacement of traditional leased line networks and other enterprise networks. Access VPN provides secure tunnels for small-sized users like SOHO to access the resources of company headquarters via PSTN/ISDN. Extranet VPN extends the enterprise networks to the business partners and clients, and enables different companies to communicate securely and privately over the public networks. Quidway® AR 18-3X Series Routers are mainly used at the access end of VPNs.

Dial Control Center

Quidway® AR 18-3X Series Routers provide perfect dial-in solutions and support two dial-in modes, namely legacy DCC and dialer profiles. In addition, they also support the link layer protocols like point to point protocol (PPP), the network layer protocols like internet protocol (IP) and internet packet exchange (IPX); they have the capability of running multiple dynamic routing protocols on the dial-in interfaces; they thereby can satisfy various network topology requirements. The dialer profiles own more functions, and can enable multiple dial-in users to share a physical interface via the dialer pool and make different calls.

Reliability

The backup center technology can greatly enhance the network reliability. The features of ISDN BRI interface implement line backup and provide high reliability.

Command Line Interface

The command line interface (CLI) of Quidway® AR 18-3X Series Routers can be configured in common ways. No special training is needed for users.

2B+D Data Transmission

The AR 18-31/18-34/18-34E/18-35E has the built-in terminal adapter (TA) and provides the ISDN BRI interface for 2B+D data transmission.

ADSL/ADSL2+ and G.HSDSL Access

Quidway® AR18-3X Series Routers support ATM PVC, point-to-point protocol over AAL5 (PPPoA), IP over AAL5 (IPoA), and point-to-point protocol over Ethernet over AAL5 (PPPoEoA). The routers can cooperate with different DSLAM devices for SOHO users' broadband network access.
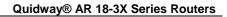
Branch offices are strongly recommended to adopt the ADSL+NAT+IPSec/IKE solution. With the IKE aggressive mode and the NAT traversal feature, the branch offices can replace the traditional leased line access solution with the securer ADSL broadband access solution.

Chassis

Electromagnetic shielded plastic chassis, which the AR-3x Series Routers adopt, has not only a smooth external appearance and small size, but also can effectively shield electromagnetic interference from various sources to make the system work more stably and reliably.

Product Specification

Item	AR 18-33/18-34	AR 18-33E/AR 18-34E	AR 18-30E/18-31E	AR 18-32E/18-35E
Interface	1Console port 1 G.SHDSL(single-pair interface) 4 10/100 Mbps Ethernet interfaces 1 ISDN BRI S/T interface (only for AR 18-34)	1 Console port 1 G.SHDSL(dual-pair interface) 4 10/100 Mbps Ethernet interfaces 1 ISDN BRI S/T interface (only for AR 18-34E)	1 Console port 1 ADSL2+ over POTS interface 410/100 Mbps Ethernet interfaces 1 ISDN BRI S/T interface (only for AR 18-31E)	1 Console port 1 ADSL2+ over ISDN interface 4 10/100 Mbps Ethernet interfaces 1 ISDN BRI S/T interface(only for AR 18-35E)
Processor	MPC859		BMC 6348	
SDRAM	64 MB			
Flash	8 MB		16MB	

Item		AR 18-33/18-34	AR 18-33E/AR 18-34E	AR 18-30E/18-31E	AR 18-32E/18-35E
Max power consumption		10 W			
Power supply (external)	**Input**	Rated voltage range: 100 VAC to 240 VAC, 50 Hz or 60 Hz Max voltage range: 90 VAC to 264 VAC, 47 Hz or 60 Hz Current: 0.5 A to 1 A			
	Output	Voltage: 12 VDC Current: 1.25 A			
Physical dimensions (H x W x D)		45 x 300 x 180 mm (1.8 x 11.8 x 7.1 in.), including bulge			
Weight		1 kg (2.2 lb)			
Operating temperature		0°C to 40°C (32°F to 104°F)			
Relative humidity (noncondensing)		5% to 90%			

Order Information

Name	Description	Remark
AR 18-33	Quidway AR 18-33 Router	mandatory
AR 18-34	Quidway AR 18-34 Router	mandatory
AR 18-30E	Quidway AR 18-30E Router	mandatory
AR 18-31E	Quidway AR 18-31E Router	mandatory
AR 18-32E	Quidway AR 18-32E Router	mandatory
RT-AR1833E-AC-OVS	Quidway AR 18-33E Router	mandatory
RT-AR1834E-AC-OVS	Quidway AR 18-34E Router	mandatory
AR 18-35E	Quidway AR 18-35E Router	mandatory