



AR 18-3X Series Router Datasheet

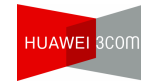


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1 Introduction

The Quidway AR 18-3x Series Router is oriented to SMB and Small Office Home Office (SOHO). It include AR 18-30/18-30E /18-31/18-31E /18-32/18-32E/18-33 /18-33E/18-34/18-34E/18-35/18-35E models. AR 18-3x Series Router belongs to xDSL routers and provides a new solution to high bandwidth required by various small and medium-sized enterprises or some large branches and offices.

In the uplink direction, Quidway AR 18-3x Series Routers provide ADSL/ADSL2+, G.SHDSL interface or ISDN interface directly connected to the equipment at the central office through one or two subscriber lines to solve the broadband network access problem. The ISDN interface primarily functions as a backup interface.

In the downlink direction, Quidway AR 18-3x Series Routers provide four 10/100BASE-T Ethernet ports. Data exchange between these ports is a layer 2 switching and can implement port isolation.

The AR 18-33/18-34/18-33E/18-34E is based on SHDSL access of ATM. The AR 18-33/34 supports two-wire mode, and the AR 18-33E/34E support four-wire mode. The AR 18-30E/31E adopts ADSL2+ over POTS (ANNEX A Standard) interface, and the AR 18-32E/35E adopts ADSL2+ over ISDN (ANNEX B Standard) interface.



Figure 1-1 Quidway AR18-30 Rear View



Figure 1-2 Quidway AR18-30E Rear View

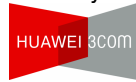


Figure 1-3 Quidway AR18-31 Rear View



Figure 1-4 Quidway AR18-31E Rear View



Figure 1-5 Quidway AR18-32/32E Rear View



Figure 1-6 Quidway AR18-33/33E Rear View



Figure 1-7 Quidway AR18-34/34E Rear View



Figure 1-8 Quidway AR18-35/35E Rear View

2 Key benefits

2.1 Diverse and Flexible Interface

The Quidway AR 18-3x Series xDSL Router has an integrated xDSL WAN port and four-port fast Ethernet LAN switch with ISDN BRI S/T interface for backup. Customers can flexibly select ADSL/ADSL2+ over POTS, ADSL/ADSL2+ over ISDN, G.SHDSL or common ISDN as WAN link.

2.2 Powerful Packet Forwarding Capability

Advanced CPU technology, highly effective, real time and multi-task operating system and unique software are used to substantially enhance its capability to process packets. Users can take advantage of wire-speed xDSL technology.

2.3 Rich Security Service

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. In addition, the Quidway AR 18-3x Series Router provide plentiful VPN solutions, such as dynamic VPN, L2TP, GRE, IPSec, IKE, as well as MPLS VPN. It could be used in Intranet VPN and Access VPN, and will greatly reduce customers' costs.

2.4 Dial Control Center

Quidway AR 18-3x Series Routers provides 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), and have the capability of running multiple dynamic routing protocols on the dial-in interfaces, thereby satisfying various requirements on network topology. 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.

2.5 Reliability

The backup center technology can greatly enhance the network reliability. The features of synchronous interface, asynchronous interface, CT1/PRI interface and ISDN BRI interface implement line backup to meet the requirements on high reliability.

3 Specifications

3.1 Product features

Table 3-1 Software Specifications of Quidway AR 18-3x Series Router

Data Link Layer Protocols	Ethernet, PPPoE Server / Client, DCC, PPP, MP, ATM, IPoA, IPoEoA, PPPoA, PPPoEoA
Network Layer Protocols	IP, ICMP, IP Fast Switch, DHCP Client / Server / Relay, ARP, Proxy ARP
Routing Protocols	Static Routing, OSPF, RIP v1 / v2, Policy Routing, IGMP, PIM-SM, PIM-DM, MSDP
Application Layer Protocols	Telnet, SSH, FTP Server / Client, TFTP, File system, NTP, Configuration function, SNMP, RMON
Security Characteristics	AAA, RADIUS, Huawei-TACACS, Firewall, ASPF, NAT, ACL, L2TP, GRE, IPSec, IKE, PKI
QoS	RED/WRED, CAR, GTS, LR, PQ, CQ, WFQ, CBQ, RTPQ, LLQ
Reliability Functions	VRRP, Backup Center



3.2 Hardware Specification

Table 3-2 Hardware Specifications of AR 18-3x Series Router

Description	AR 18-30/31	AR 18-30E/31E	AR 18-32/35	AR 18-33/34	AR 18-33E/34E	AR 18-32E/35E
Interfaces	One ADSL over POTS Interface One ISDN BRI S/T Interface (AR 18-31)	One ADSL2+ over POTS Interface One ISDN BRI S/T Interface (AR 18-31E)	One ADSL over ISDN Interface One ISDN BRI S/T Interface (AR 18-35)	One G.SHDSL Interface (two wire) One ISDN BRI S/T (AR 18-34)	One G.SHDSL Interface (four wire) One ISDN BRI S/T (AR 18-34E)	One ADSL2+ over ISDN Interface One ISDN BRI S/T Interface (AR 18-35E)
	Four 10/100M Ethernet Interfaces One Console Port					
SDRAM	64MB					
Flash	8MB(Except for AR18-30E/31E/32E/35E with a 16M flash)					
Max. Power Consumption	10W					
Power Supply Module (external)	Input: Rated voltage: 100-240v AC; 50/60Hz; Current: < 0.5A Output: Voltage: 12V DC; Current: ,< 1A					
Dimensions (W X H X D)	300 X 180 X 45mm (maximum dimensions)					
Weight	1kg					
Operating Temperature	0 to 40°C					
Operating Humidity	10 to 90%, non-condensing					

4 Ordering Guide

4.1 Ordering AR 18-3x Series Routers

The following table lists the models in Quidway AR 18-3x Series Routers and their accessories.



Table 4-1 Ordering list of Quidway AR 18-3x Series Routers

Item	Quantity	Remark
Router (AR 18-30/18-31/18-32/18-33/18-34//18-35 /18-33E/18-34E/18-30E/18-31E/18-32 E/18-35E)	1	Only 12 VDC-powered routers are available. You may choose the model according to the desired interfaces.
External power supply unit (PSU)	1	AC/DC PSU, required
AC power cord	1	Required
PGND wire	1	Required
Console cable	1	Required
Dual-pair G.SHDSL interface cable	1	Required. For the AR 18-33E/18-34E.

4.2 Ordering Cables

Users can select cables from the external cable assembly suite provided by Quidway AR 18-3x Series Routers. For configuration details, refer to *Quidway AR 18-3x Series Routers Installation Manual*.

Table 4-2 External cable assembly suite for Quidway AR 18-3x Series Routers

Item	Quantity	Remark
Ethernet cable	1/4	Optional
Telephone line	1/2	Optional
AUX cable	1	Optional

Note:

“Required” means that the item will be provided along with the router, and there is no need to make a selection.

“Optional” means that the item will not be provided along with the router unless the user selects it.

5 Safety and compliance

Emissions / Agency Approvals

CISPR22 (1997) Class B



ETSI EN300 386 Class B

EN 61000-3-2

Immunity

Product conforms to:

IEC61000-4-3 (1995) Class A

ETSI EN300 386 V1.3.1(2001) Class A

IEC1000-4-6(1996) Class A

ETSI EN300 386 V1.3.1(2001) Class A

Safety Agency Certifications

Insulation (indoor/outdoor)	IEC60950
Dielectrical Strength (indoor/outdoor)	IEC60950
Leakage Current (indoor/outdoor)	IEC60950
Construction inspection (indoor/outdoor)	IEC60950
Fire resistance (indoor/outdoor)	IEC60950

MTBF

AR 18-30 system	41.78years
AR 18-31 system	40.89years
AR 18-32 system	41.82years
AR 18-33 system	42.13years
AR 18-34 system	41.22years
AR 18-35 system	40.92years