

Quidway® AR 18-1X Series Router Datasheet

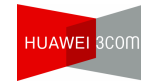
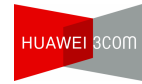


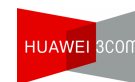
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1 Introduction

The Quidway AR 18-1X Series router offers flexible interfaces, advanced backup function and powerful packet processing capability. It is easily deployed and maintained. With excellent cost-effective performance. It is an ideal choice for SOHO and SME networking.

Quidway AR 18-1x Series includes AR 18-10, AR 18-12, AR 18-13, AR 18-15, AR 18-16, AR 18-18,AR 18-13V,AR 18-18V, which have diverse fixed interfaces.



Figure 1-1 Quidway AR 18-10 Rear View



Figure 1-2 Quidway AR 18-12 Rear View



Figure 1-3 Quidway AR 18-13 Rear View



Figure 1-4 Quidway AR 18-13V Rear View



Figure 1-5 Quidway AR 18-15 Rear View

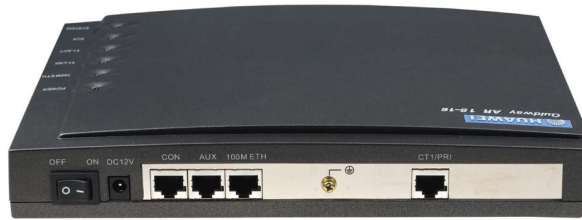


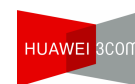
Figure 1-6 Quidway AR 18-16 Rear View



Figure 1-7 Quidway AR 18-18 Rear View



Figure 1-8 Quidway AR 18-18V Rear View



2 Key Benefits

2.1 Diverse and Flexible Interfaces

The Quidway AR 18-1x Series Router provides superior capability and diverse interface, such as Ethernet interface, multi-protocol synchronous/asynchronous serial interface, auxiliary (AUX) port, ISDN BRI S/T and U port, cT1/PRI port, E1-F port and FXS port. In terms of FXS, AR 18-13V and AR 18-18V provide VoIP voice interfaces, so users also can enjoy the VoIP voice service when they use the router to access network and transmit data. In addition, subscribers can select an access service among WAN technologies such as PSTN, Frame Relay, X.25, DDN and ISDN.

2.2 Abundant Security Functionality

Quidway AR 18-1X series routers provide abundant security policies, QoS, GRE, IPSec VPN, L2TP VPN .

2.3 Easy Network Management

The network management system of Quidway AR 18-1x Series Router is compliant with the SNMP standard and universal network management platform. It is convenient to deploy and centralize network management.

2.4 Powerful Packet Processing Capability

Advanced CPU technology, highly effective, real time and multi-task operating system are used to substantially enhance its capability to process packets.

3 Specifications

3.1 Product features

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

| | |
|---------------------------|---|
| Data Link Layer Protocols | Ethernet, PPP, SLIP, FR, LAPB, X.25, ISDN, HDLC, DCC, MODEM, MP |
| Network Layer Protocols | IP, ICMP, IP Fast Switch, DHCP Client / Server / Relay, ARP |
| Routing Protocols | Static Routing, OSPF, RIP v1 / v2, Policy Routing, IGMP, PIM-SM, PIM-DM |



| | |
|-----------------------------|---|
| Application Layer Protocols | Telnet, Rlogin, FTP, TFTP, Callback, Configuration function, SNMP, RMON, Private MIBs |
| Security Characteristics | AAA RADIUS, Huawei-TACACS, Firewall, NAT, L2TP, GRE, IPSec, IKE |
| QoS | PQ, CQ, WFQ, CBQ, CAR, GTS, WRED, RTPQ, LR |
| Reliability Functions | VRRP, Backup Center |

3.2 Hardware Specification

Table 3-2 Hardware Specifications of Quidway AR 18-1x Series Router

| Description | AR 18-10 | AR 18-12 | AR 18-13/13V | AR 18-15 | AR 18-16 | AR 18-18/18V |
|-------------------------|--|---|--|--|---------------------|--|
| Interfaces | 1 Multi-protocol Synchronous/Asynchronous Serial Interfaces | 2 Multi-protocol Synchronous/Asynchronous Serial Interfaces | 1 Multi-protocol Synchronous/Asynchronous Serial Interface 1 ISDN BRI S/T Interface 2FXS (only 18-13V) | 1 Multi-protocol Synchronous/Asynchronous Serial Interface 1 ISDN BRI U Interface | 1 cT1/PRI Interface | 1 E1-F Interface 2FXS (only 18-18V) 1 ISDN BRI S/T (only 18-18V) |
| | 1 Console Port 1 10/100Mbps Ethernet Interface 1 AUX Port (Exclude AR 18-10) | | | | | |
| SDRAM | 64MB | | | | | |
| Flash | 8MB | | | | | |
| Max. Power Consumption | 10W | | | | | |
| Power Module (External) | Input: Rated Voltage:100-240V AC; 50/60Hz; Current: 0.5A to 1A | | | | | |
| | Output: Voltage: 12V; Current: < 1 A | | | | | |
| Dimensions (W X H X D) | 251 X 42.5 X 187 mm (maximum dimensions) | | | | | |
| Operating Temperature | 0 to 40°C | | | | | |

| | |
|--------------------|---------------------------|
| Operating Humidity | 10 to 90%, non-condensing |
|--------------------|---------------------------|

4 Purchase Guide

4.1 Ordering AR 18-1x Series Routers

The following table lists the models in Quidway AR 18-1x Series Routers and their accessories.

Table 4-1 Purchase list of the AR 18 series

| Item | Quantity | Remark |
|--|----------|---|
| Router unit (AR 18-10/18-12/18-13/18-13V/18-15/18-16/18-18/18-18V) | 1 | Only 12V DC-powered units are available. You may choose the unit 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 |
| ISDN S/T cable | 1 | Required. For the AR 18-13/18-13V/18-18V |
| ISDN U cable | 1 | Required. For the AR 18-15 |
| T1 cable | 1 | Required. For the AR 18-16 |

4.2 Purchasing Cables

You can select cables from the external cable assembly suite provided by the AR 18-1x series. For configuration details, refer to *Quidway AR 18-1x Series Routers Installation Manual*.

Table 4-2 External cable assembly suite for the AR 18 series

| Item | Quantity | Remark |
|---|----------|---|
| Synchronous/Asynchronous serial interface cable | 1/2 | There are two types of Synchronous/Asynchronous serial interface cable; one uses a DB50 connector to connect to routers. Depending on the connector at the network end, the user can choose the |

| Item | Quantity | Remark |
|----------------|----------|--|
| | | cable from V.24 (DTE and DCE), V.35 (DTE and DCE), X.21 (DTE and DCE), RS530 (DTE), RS449 (DTE and DCE) cables. The other type of Synchronous/Asynchronous serial interface cable uses DB28 connector to connect to routers, which is mainly used to connect to enhanced interface module such as 2SAE/4SAE/8SAE, cables such as V.24 DTE/DCE, V.35 DTE/DCE, X.21 DTE/DCE, RS449 DTE/DCE, RS530 DTE/DCE are available at present. |
| AUX cable | 1 | Optional. |
| Ethernet cable | 1/4 | Optional. |
| Telephone line | 1/2 | Optional |

Note:

- “Required” means that the item will be provided along with the host, and there is no need to make a selection.
- “Optional” means that the item will not be provided along with the host unless the user selects it.

5 Safety and Compliance

Emissions / Agency Approvals

CISPR 22 Class B

ETSI EN300 386 Class B

EN 61000-3-2

Immunity

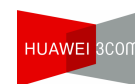
Product conforms to:

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 18-12 system | 40.07years |
| AR 18-13 system | 40.77years |
| AR 18-15 system | 40.02years |
| AR 18-16 system | 39.94years |
| AR 18-18 system | 40.09years |
| AR 18-13Vsystem | 40.41years |
| AR 18-18Vsystem | 38.77years |