

2SAE/4SAE/8SAE Modules of H3C Series Routers

I. Module Introduction

2SAE/4SAE/8SAE is the short of 2/4/8-port enhanced high synchronous/asynchronous serial port module. The main function of SAE module is the same as SA module, but the difference is that SAE module serial port can support more protocols, such as RS449, X.21 and RS530.

II. Module Appearance

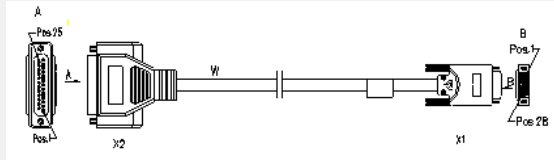


Figure1 2SAE module appearance

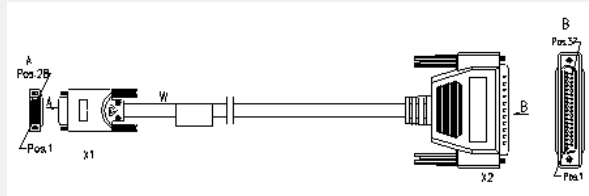


Figure2 4SAE module appearance

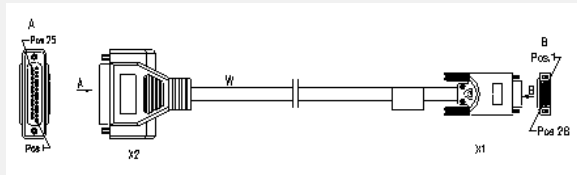


Figure3 8SAE module appearance

Interface Indicator

2SAE module panel is shown as follows:

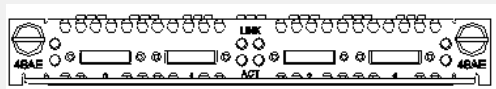


Figure4 2SAE module panel

4SAE module panel is shown as follows:

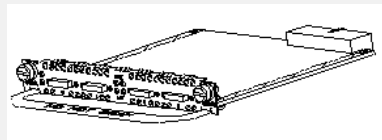


Figure5 4SAE module panel

The following table presents the implications of various indicators:

Table1 2

SAE/4SAE module indicator implication

| | |
|------|--|
| LINK | Extinguished represents the link is not connected. Light represents the link is connected. |
| ACT | Flash represents some data has been received/sent. Extinguished represents no data has been received/sent. |

8SAE module panel is shown as follows:

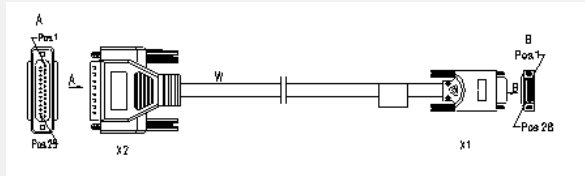


Figure6 8SAE module panel

8SAE module has one indicator for each channel. Light frequently represents LINK (the link is connected) and flash represents ACTIVE (some data has been received/sent).

III. Interface Attribute

The following presents the interface attributes of SAE module:

Table2 2SAE

/4SAE/8SAE module interface attribute

| Attributes | Description | | |
|---------------------------------------|--|--------------------------|---|
| | Synchronous | | Asynchronous |
| Connector type | DB28 | | |
| Connector number | 2 (2SAE) 4 (4SAE) 8 (8SAE) | | |
| Interface standard & operational mode | V.24 | V.35, RS449, X.21, RS530 | RS232 |
| | DTE, DCE | DTE, DCE | |
| Minimum baud rate (bps) | 1200 | 1200 | 300 |
| Maximum baud rate (bps) | 64k | 2.048M | 115.2 |
| Cable type | V.24 (RS232) DTE cable V.24 (RS232) DCE cable V.35 DTE cable V.35 DCE cable X.21 DTE cable X.21 DCE cable RS449 DTE cable RS449 DCE cable RS530 DTE cable RS530 DCE cable | | |
| Support service | DDN leased line Terminal access | | Modem dial-in backup Asynchronous leased line Terminal access service |

IV. Interface Cable

Each interface of SAE module is a 28-core connector, so cable is a synchronous/asynchronous serial port cable with DB28 connector.

You should confirm the line features before connecting SAE module. There are following special cables for selection:

- I V.24 (RS232) DTE cable: Network side is DB25 (male) connector.
- I V.24 (RS232) DCE cable: Network side is DB25 (female) connector.
- I V.35 DTE cable: network side is 34PIN (male) connector.
- I V.35 DCE cable: network side is 34PIN (female) connector.
- I X.21 DTE cable: network side is DB15 (male) connector.
- I X.21 DCE cable: network side is DB15 (female) connector.
- I RS449 DTE cable: network side is DB37 (male) connector.
- I RS449 DCE cable: network side is DB37 (female) connector.
- I RS530 DTE cable: network side is DB25 (male) connector.
- I RS530 DCE cable: network side is DB25 (female) connector.

One end of above cables attached to router is DB28 connector, and the other varies by different network side.

- I V.24 DTE cable

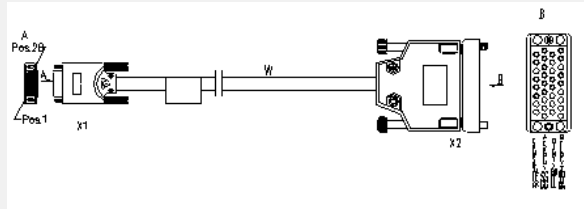


Figure7 V24 DTE cable
 I V.24 DCE cable

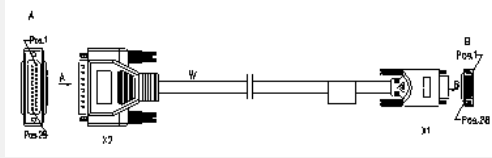


Figure8 V.24 DCE cable
 I V.35 DTE cable

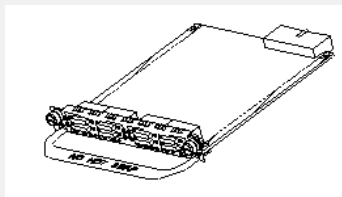


Figure9 V.35 DTE cable
 I V.35 DCE cable



Figure10 V.35 DCE cable
 I X.21 DTE cable

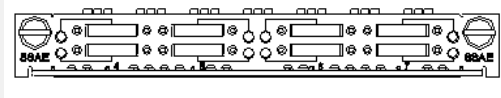


Figure11 X.21 DTE cable
 I X.21 DCE cable



Figure12 X.21 DCE cable
 I RS449 DTE cable

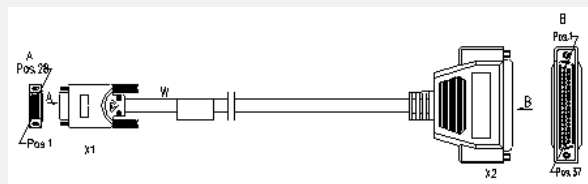


Figure13 RS449 DTE cable
 I RS449 DCE cable

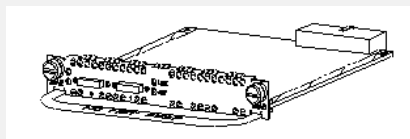


Figure14 RS449 DCE cable

I RS530 DTE cable

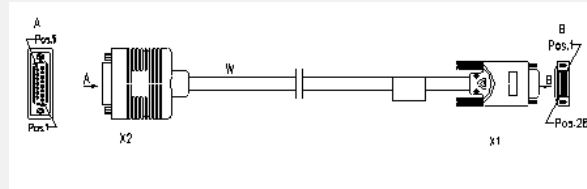


Figure15 RS530 DTE cable

I RS530 DCE cable

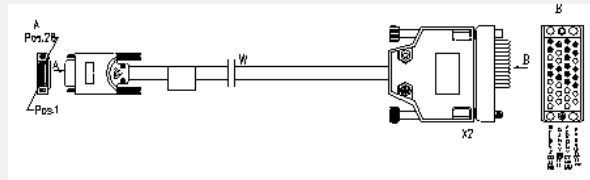


Figure16 RS530 DCE cable

For the pin connection relations of synchronous/asynchronous serial port cable (with DB28 connector), see "Medium/Low End Series Router Cable Manual."

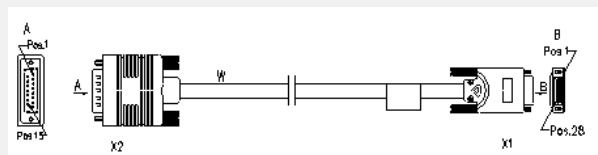
& Note:

The above cables are optional. Users need to purchase when purchasing SAE module, or these cable are unavailable.

Connection of Interface Cable

Warning:

Strictly prohibit to insert in/out SAE module interface cable when router starts, or this will cause device and port damage easily.



Note:

Please first confirm the type of device attached to SAE module (i.e. synchronous/asynchronous mode of the peer, DTE/DCE mode and so on), and signal standard, baudrate, synchronous clock need to the access device before connecting SAE module.

Step 1: Confirm the interface type of the peer, and select the correct synchronous/asynchronous serial port cable.

Step 2: Insert one end of synchronous/asynchronous serial port cable DB28 into the DB28 interface on SAE module.

Step: Attach the other end of cable to the following device:

- I If WAN is DDN, please attach cable to CSU/DSU interface.
- I If WAN is dial-in line, please attach cable to the serial port of analog Modem.

Step 4: After start, please check the indicators of corresponding slots on the router front panel. Light represents self-test is completed and the module works well. Extinguished represents self-test is not pass, please contact agent.

Step 5: After start, please check the state of LINK indicator on SAE module panel. Extinguished represents the line failed and signal is not synchronous. Please check the line.