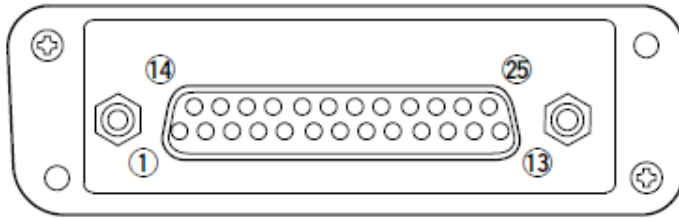


FR-5000 DB-25 Accessory Connector Pinouts and Actions



| Pin No. | Pin Name | Description | Specification |
|---------|-----------|---|---|
| 1 | NC | No connection | -- |
| 2 | TXD | Output terminal for serial communication data. PC connector only. | -- |
| 3 | RXD | Input terminal for serial communication data. PC connector only. | -- |
| 4 | RTS | Output terminal for request-to-send data. PC Connector only. | -- |
| 5 | CTS | Input terminal for clear-to-send data. | -- |
| 6 | NC | No Connection | -- |
| 7 | GND | Serial/digital signal ground | -- |
| 8 | MOD IN | Modulator input from an external terminal unit. | - Input level: 300 mV rms 848mV P-P - Input for AF from 300Hz or more - Connection for MSK modem - Input impedance: approx. 2.7kΩ |
| 9 | DISC OUT | Output terminal for AF signals from the AF detector circuit. Output level is fixed, regardless of [AF] control. | Output level: 300 mV rms 848mV P-P 1kΩ impedance Output from detector circuit - Buffer output - When receiving a signal with 60% modulation, outputs 300mVrms. |
| 10 | EXT. D/A | The desired function can be assigned in the programming software. (Default: Null) | -- |
| 11 | VCC | 13.6 V DC output | Output current: Less than 1 A |
| 12 | EXT. A/D | Customize A/D input (Not used) | -- |
| 13 | NC | No Connection | -- |
| 14 | GND | Ground | -- |
| 15 | EXT./O 15 | The desired function can be assigned in the programming software. (Default: Null) | +5 V pull up, Active = L |
| 16 | EXT./O 16 | The desired function can be assigned in the programming software. (Default: P0 Monitor Output) | +5 V pull up, Active = L |
| 17 | EXT./O 17 | The desired function can be assigned in the programming software. (Default: Busy Output) | +5 V pull up, Active = L |
| 18 | EXT./O 18 | The desired function can be assigned in the programming software. (Default: Null) | +5 V pull up, Active = L |

| | | | |
|----------------|-----------------|--|---|
| 19 | EXT./O 19 | The desired function can be assigned in the programming software. (Default: EPTT Input) | +5 V pull up, Active = L |
| Pin No. | Pin Name | Description | Specification |
| 20 | DATA IN | Input terminal for data | Data input for AF from 2kHz or more - Bypasses pre-emphasis circuit - Input impedance approx 47kΩ - Approx 60% modulation when applying 300mVrms input (848mV P-P) |
| 21 | EXT./O 21 | The desired function can be assigned in the programming software. (Default: Analog Audible Output) | +5 V pull up, Active = L |
| 22 | AF OUT | The AF detector output | AF output with fixed level (does not follow AF volume position) - Signal after de-emphasis circuit - Buffer output - When receiving a signal with 60% modulation, outputs 300mVrms (848mV P-P) |
| 23 | EXT./O 23 | The desired function can be assigned in the programming software. (Default: Mic Mute Output) | +5 V pull up, Active = L |
| 24 | EXT./O 24 | The desired function can be assigned in the programming software. (Default: Null) | +5 V pull up, Active = L |
| 25 | EXT./O 25 | The desired function can be assigned in the programming software. (Default: Mic Hanger Output) | +5 V pull up, Active = L |

DB-25 Pin Actions

The table below shows the state of each assigned pin by function when any one of the following conditions occur:

- Local Mic is Keying Up
or
- UC-FR5000 is installed. RCFS10 is receiving a signal and connected to the local Repeater.
or
- Repeater (with no RCFS10) is receiving a signal.

| DB25 Pin Assignment | Local Mic (TX) | RX with RCFS10 connected | RX with Repeater Traffic |
|----------------------------|-----------------------|---------------------------------|---------------------------------|
| Busy | No | No | Yes |
| EPTT (Input) | No | No | No |
| Analog Audible | No | No | Yes (Analog Signal) |
| Digital Audible | No | No | Yes (Digital Signal) |
| TX | Yes | Yes | Yes |
| PTT | Yes | No | No |