



FEATURES

- 3RU 19" rack
- Clear irridited finish
- 8 X RS232 To RS422 channels
- DTE or DCE configurable per module
- Front panel indicators
- Pluggable eurocard modules
- PSU module

INTRODUCTION

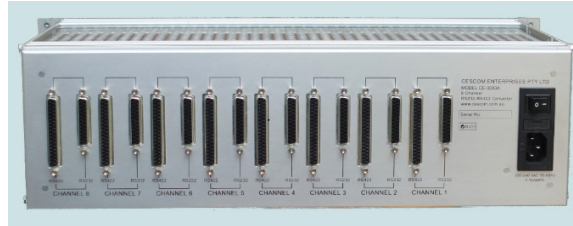
The CE-0003A provides 8 channels of RS232 to RS422 conversion according to the RS449 standard which implements data, clock, and handshake signals on DB37 connectors.

APPLICATIONS

Aeronautical Fixed Telecommunication Network (AFTN)

WE DELIVER ANYWHERE

CONNECTIONS



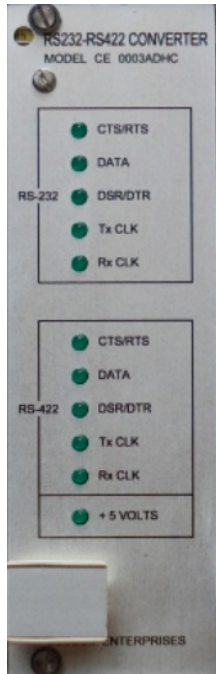
RS449 Signals and Connections

PIN	NAME	DESCRIPTION	PIN	NAME	DESCRIPTION
1		Shield	20	RG	Receive Common
2		1	21		
3			22	TD+	Transmit Data B
4	TD-	Transmit Data A	23	TC+	Transmit Clock B
5	TC-	Transmit Clock A	24	RD+	Receive Data B
6	RD-	Receive Data A	25	RTS+	Request To Send B
7	RTS-	Request To Send A	26	RC+	Receive Clock B
8	RC-	Receive Clock A	27	CTS+	Clear To Send B
9	CTS-	Clear To Send A	28		
10			29	DSR+	Data Set Ready B
11	DSR	Data Set Ready A	30	CD+	Terminal Ready B
12	DTR	Terminal Ready A	31	CD+	Carrier Detect B
13	CD-	Carrier Detect A	32		
14			33		
15			34		
16			35	XC+	External Clock B
17	XC-	External Clock A	36		
18			37	TG	Transmit Common
19	SG	Signal Ground			

RS232 Signals and Connections

PIN	NAME	DESCRIPTION	PIN	NAME	DESCRIPTION
1		Shield	13		
2	TxD	Transmit Data	14		
3	RxD	Receive Data	16		
4	RTS	Request To Send	17	RC	Receive Clock
5	CTS	Clear To Send	18		
6	DSR	Data Set Ready	19		
7	SG	Signal Ground	20	DTR	Data Terminal Rdy
8	CD	Carrier Detect	21		
9			22		
10			23		
11			24	XCK	External Clock
12			25		
13					

INDICATORS



RS232 PORT

- **CTS/RTS** Handshake
- **DATA** Receive/Transmit Data
- **DSR/DTR** Handshake
- **TxCLK** Transmit Clock
- **RxCLK** Receive Clock

RS422 PORT

- **CTS/RTS** Handshake
- **DATA** Receive/Transmit Data
- **DSR/DTR** Handshake
- **TxCLK** Transmit Clock
- **RxCLK** Receive Clock
- **+5V** Module supply volts

SPECIFICATIONS

- **Power** 240VAC 50HZ, 150mA (RMS)
- **Size** H:132mm x W:484mm x D:300mm
- **Weight** 2.65 kg (approx)
- **Material** ABS PA-756
- **Environment** 0 to +70°C operating
- **Standards** TS001/AS/NZS3260, AS/NZS3548
- **RS232 Speed** 115K baud max
- **RS422 Speed** 115K baud max
- **RS232 Indicators** TxClock, RxClock, Data, Rts/Cts, Dtr/Dsr
- **RS422 Indicators** TxClock, RxClock, Data, Rts/Cts, Dtr/Dsr

DOCUMENTATION

A Maintenance Manual is provided with each unit that has the following details:

1. Technical Description
2. Circuit Diagrams
3. Parts Listing
4. Certificate of Conformance

STANDARDS

The CE-0003A conforms to the following Standards:
AS/NZS 3260:1993 (including amendments 1,2,3,4)
AS/NZS CISPR 22:2006
EIA 232C
EIA 422A