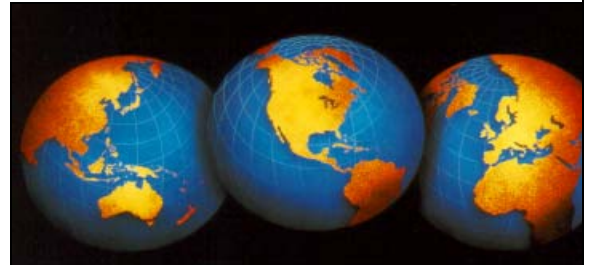# C10 Communications

4W-TA128R

4-Wire ISDN Terminal Adapter
Rack mounted version

4-Wire ISDN Terminal Adapter

GENERAL

The 4 Wire ISDN Terminal Adapter 4W-TA128R is a terminal adapter compatible with the Basic Rate ISDN services such as Telstra ISDN 2.
It connects to the S/T bus of a Network Termination Unit NT1. No power is drawn from the S/T bus.
It provides 2 telephone services over the 2 B channels. Each one of them can be used as a normal 2-wire telephone service or as a 4-wire service with possibility of switching between the two.

FEATURES

4W-TA128R is built as a 1 RU 19" rack mountable unit.

It has two 2-wire telephone ports and two 4-wire audio ports. Once on a connected call, switching is possible between 2-wire and 4-wire operation using the telephone keypad or by AT commands via the USB port.

Calls can be established independently on the 2 ports by manually dialling or answering or by using the Auto Dial or Auto Answer feature. Telephone numbers can be programmed in a non-volatile memory for this purpose.

When automatic dialling or answering is used, switching to 4-wire operation is also automatic.
There is an automatic re-dial facility, on loss of power or loss of telephone connection the unit programmed for auto dial will repeatedly auto dial attempting to re-establish the connection.

Ordering Information

C10 Model No.	C10 Part No.
4W-TA128R	1078533

C10 products are subject to continuous development and improvement and we reserve the right to change specifications without notice.

TECHNICAL SPECIFICATIONS

Power: 90 – 264 Vac, 47 – 63 Hz
Power supply: internal, with IEC320 socket
Ambient: Operating ambient: $0 – 45^0$ Celsius.
Dimensions: 440 mm (W) 225 mm (D) 44 mm (H)
Weight: 3.8 kg
Two 2-wire ports
- Compliant with the relevant parts of TS002-2001, but the ringing waveform is trapezoidal at about 110 Vpp.
- Meets psophometrically weighted noise limit
- Port impedance: TN12, Ports classified as TNV2

Two 4-wire ports
- Port impedance: 600 Ω transmit and receive
- Send Relative Level: +9 dBr
- Receive Relative Level: +9 dBr
- Lossless communication between 300 Hz - 3400 Hz
- DC level: no DC voltage present on the input or output port (transformer coupling)
- DC current capability: The port can accept up to 100 mA DC indefinitely, without damage

Connector for ISDN S/T bus
Terminating resistors (100 Ω), switchable
S/T bus compliance: S0031
USB port
Reset connection: external
Indicators: 10 green LED's:
- Power on
- B1: ISDN Bearer 1 active
- B2: ISDN Bearer 2 active
- USB power on
- Port 1 AA enabled
- Port 1 AD enabled
- Port 1 in 4W mode
- Port 2 AA enabled
- Port 2 AD enabled
- Port 2 in 4W mode

Compliance: AS NZS 90650.1-2003 (Safety); AS/NZS 3548:1995 (CISPR 22) Class A (EMI)
Network compatibility: Circuit mode, 64 kbit/s 8 kHz structured, demand established ISDN 2 bearer service with information transfer capability of "3.1 kHz audio"
Remote testing: only by using a loopback plug on the 4-wire ports, when the unit is programmed for auto answer.