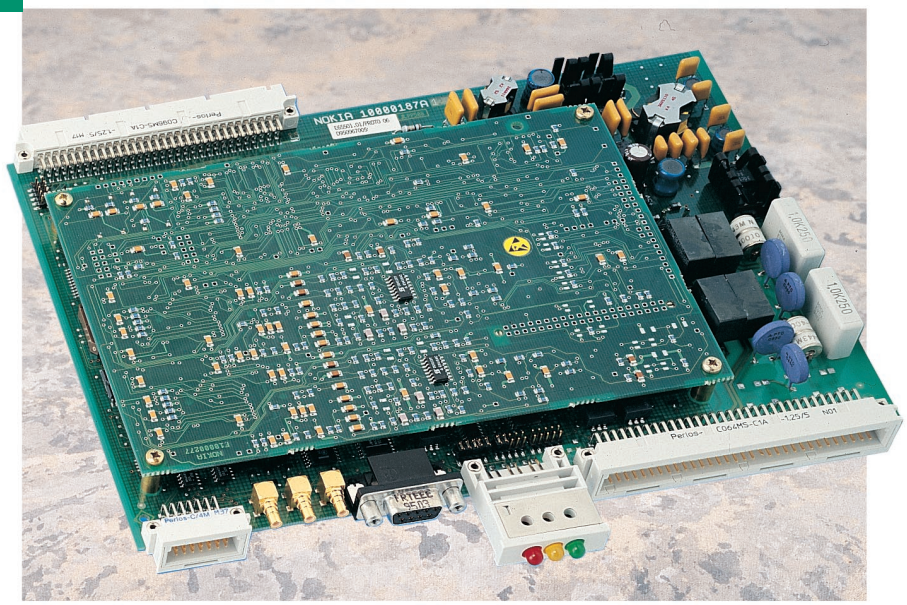

ACL2

Line Equipment

The Nokia ACL2 line terminal provides highly efficient and cost-effective 2Mbit/s High-bit-rate Digital Subscriber Line (HDSL) transport using standard, unconditioned copper-wire local loop facilities.

Basic Concept

The Nokia ACL2 is a 2 Mbit/s HDSL line terminal for repeaterless E1 transport over two twisted copper pairs. It provides 2.048 Mbit/s user payload and ETSI-compliant framing. The total line capacity of 2.3 Mbit/s accomodates, e.g., bandwidth for the VC-12 transport upgrade. The user data is conveyed either transparently or in a G.704 frame structure. The ACL2 employs 2B1Q line coding.

The ACL2 fully integrates into Nokia's existing Access Transmission System family; it shares the same mechanical racking, power systems and management system.

The ACL2 interworks with all Nokia ETSI-compliant network terminals in tributary applications, and with other ACL2 units in aggregate applications.

Application Areas

The ACL2 can be used in a number of applications that provide highly reliable remote subscriber access.

At the subcriber end an ACL2 line terminal can be connected either to a flexible multiplexer that provides interfaces to voice, data and PBX services, or to a POTS multiplexer for ordinary telephone connections.

In single-port G.703/G.704 operation Nokia DNT2M network terminals can be employed together with the ACL2. The DNT2M-rp enables remote power feed to subscriber premises.

If repeaters are installed on the line, the connection lenght can be doubled.

Network Management

The ACL2 as well as other Nokia DYNANET products can be managed locally with the Nokia Service Terminal or a Windows-based node manager on a PC.

Remote management is accomplished with the service terminal or with Nokia Transmission Management System TMS4. The management features comprise remote configuration, test loop activation, line quality monitoring and alarms.

Full TMS remote configuration reduces installation requirements to a minimum line and power connection and address configuration; full device configuration can be done from the central management site, and installation personnel is no longer required.

Technical Highlights

- *2B1Q line coding*
- *2.3 Mbit/s line rate*
- *Complies with ETSI RTR/TM03036*
- *Complies with DYNANET equipment*
- *Complies with the Nokia TMS4 management system*

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Product Code	T65500	
Interfaces	*Line interfaces*	
	Line code	2B1Q dual duplex
	Line rate	2x1.168 Mbit/s
	Signal bandwidth	292 kHz
	Line interface	4-wire
	Line impedance	135 ohm
	TX power	13.5 dBm @ 135 ohm
	Equipment interfaces	2M/G.704 (G.703/G.704)
Operational Range	Exceeds ETSI specifications	
Operation and Management	Local management interface Remote NMG (DYNANET TMS4) interface	
Power	Incoming battery voltage	20 to -75 V (DC)
	Power consumption	max. 10 W
	Remote power feed interface	
Mechanical Construction	223 x 26 x 160 mm (H x W x D) Euro-2 size PCB	
MTBF	>25 yrs	
Environmental Specifications	Transportation	ETSI ETS 300019-1-2 class 2.3
	Storage	ETSI ETS 300019-1-1 class 1.2
	Operation	ETSI ETS 300019-1-3 class 3.2
Electromagnetic Requirements	prETS 300386 table 4 (July, 1994) prETS 300246 (July, 1993)	

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CONNECTING PEOPLE

Nokia Telecommunications. P.O.Box 12, FIN-02611 Espoo, Finland. Phone: +358-0-51121, fax: +358-0-5112 7502

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