

ADX Active Digital Cross-Connect

ADX200 and ADX201



The ADX Active Digital Cross-Connect provides an innovative solution for interconnecting systems in telecommunications and exchange buildings, reducing space by 50 to 80 percent, increasing flexibility and bringing down overall capital (CAPEX) and operational expenditure (OPEX).

The ADX combines in one package a very compact SDH add/drop multiplexer (ADM), up to 64 accessible E1 ports, optional STM-1 aggregation ports, E1 cross-connect and a DDF. It complies with SDH standards and supports operations and administration features required for successful integration into an existing transport network.

Features

- Non-intrusive automated test access on DDF
- DDF traffic restoration in case of network failures
- E1 traffic concentration over STM-1. 63 E1 ports can be aggregated on a single fibre optic or single electrical link.
- Two STM-1 hot pluggable optical or electronic SFP (small-form-factor pluggable) interfaces.

Application and Benefits:

- Ideal for limited space applications in remote sites
 - Wireless base station or wireless concentrator sites
 - E1 to the curb or E1 to the building
- Saves installation cost
 - Eliminates extensive E1 copper cabling between DDF and ADM/DCS, saves installation time and reduces cabling errors
 - Pre-configured system
 - Easy service turn-up
 - No need for additional, highly trained staff
- Increases quality of service (QoS)
 - Possibility of monitoring access for all relevant test parameters
- Offers space and cost saving expansion of installed SDH systems
 - Conventional ADM/DCS over a limited number of E1/DS1 ports
 - The ADX provides additional E1/DS ports to an ADM/DCS via the STM-1 interface

SPEC SHEET



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Ordering Information

Description	Catalogue Number
ADX200 1 rack (height) unit, for mounting in ETSI/19" rack	
Without interface cards	ADX-7077 2 018-00
With 4 interface cards	ADX-7077 2 017-00
ADX201 2 rack (height) units, for mounting in ETSI/19" rack	
Without interface cards	ADX-7077 2 020-00
With 8 interface cards	ADX-7077 2 019-00
Accessories	
Blank faceplate	ADX-7077 2 010-01
Interface card with LSA-PLUS® connector	ADX-7077 2 016-00
Horizontal cable management tray	6527 1 006-01

Specifications

PHYSICAL DESIGN

Modular design includes:

- STM-1 module
- ADX200 19" version 1 RU (HE) for four interface cards, 32 E1s
- ADX201 19" version 2 RU (HE) for eight interface cards, 64 E1s
- Hot pluggable interface cards, with eight E1 interfaces each. Interface card for unshielded twisted pair, using LSA-PLUS® connection technology
- Up to two STM-1 interface (optical or electrical) using small-form-factor pluggable (SFP)

Size: 19" 1RU (HE) and 2RU (HE)

Weight: 2 kg

Power: Power-over-Ethernet (PoE), 802.3af, < 14 Watt, DC 48V and redundant power supply via external converter

Slots: Two SFPs, eight interface cards (2RU) and four interface cards (1RU)

ENVIRONMENTAL

Operations: ETS300-019-2-3 class 3.1

Storage: ETS300-019-2-1 class 1.2

Transport: ETS300-019-2-2 class 2.3

Interfaces: 64x E1, multiple mapping schemes are supported including 2Mbps framed, 2Mbps unframed, (2) STM-1, optical (IR/SR/LR) and electrical via SFP modules

Protection: 1+1 MSP

Reliability: MTBF > 30 years.

Management: Web-based integrated craft interface (ICI) including the support of smart default settings
IP based management

Local management access via 10/100BaseT interface

SNMP with trap messages supported

Non-volatile software and database stores including back-up and restore

Timing: E1 and line timing (Timing Marker) support

Integrated SDH equipment slave clock (SEC) according to ITU G.813

Re-timing option on the E1 interfaces

Standards: In compliance with the ITU, ETSI, IEC, IEEE, IETF standards for E1 and SDH equipment

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Web Site: www.adc.com

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