

TrueNet®

ADX Active Digital Cross-connect

Issue 1



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/DS1 traffic concentration over STM-1.
- 63 E1/DS1 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

SPEC SHEET



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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
 - 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

Specifications

Modular design includes:	STM-1 module
	A mechanical frame that supports up to eight interface cards
	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 interfaces (optical or electrical) using
	small-form-factor pluggable (SFP) interface
Size (WxHxD):	140mm x 244mm x 120mm
Weight:	2kg
Power:	Power-over-Ethernet (PoE), 802.3af, < 11 Watt, DC 48V
	and redundant power supply via external converter
Slots:	Two SFPs and eight interface cards
Operations:	ETS 300-019-2-3 Class 3.2
Storage:	ETS 300-019-2-1 Class 1.2
Transport:	ETS 300-019-2-2 Class 2.3
Interfaces:	64 x 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 restoration
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, IEE, IETF
	standards for E1 and SDH equipment

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Ordering Information

Description	Product No.
ADX100 for Profil rod mounting	
Without interface cards	ADX-7072 2 012-01
With 8 interface cards	ADX-7072 2 012-00
Accessories	
Blank faceplate	ADX-7072 2 010-01
Interface card with LSA-PLUS connector	ADX-7072 2 016-00

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