

# ASX Active Digital Signal Cross-Connect



Part of ADC KRONE's innovative family of active digital signal cross-connect products, the ASX fully integrates an SDH multiplexer with a FlexDSX<sup>®</sup> cross-connect chassis. The product allows easy migration of 2 Mbit equipment to next generation equipment, as well as enabling additional capacity and transition to fibre optic backhaul to support increasing data rates.

The ASX is compatible with existing DSX installations and supports standard DSX functionalities and advantages:

- Modular construction, featuring either wire-wrap or LSA-PLUS<sup>®</sup> punchdown cable termination methods
- Easy circuit identification through the integrated LEDs
- Four-port jack cards with dual monitoring ports enable individual circuit monitoring in both directions
- Cross-connection and patching of circuits
- Superior, intuitive cable management

The extremely compact STM-1 level SDH multiplexer supports 1+1 MSP on the link side and management features are accessed via GUI interface. By fully integrating an SDH multiplexer into the digital distribution frame, the ASX provides space savings, as well as reducing cabling and maintenance costs.

SPEC SHEET



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# ASX Active Digital Signal Cross-Connect

11/07 • 105350AE ASX Active Digital Signal Cross-Connect

## Features

- All front access
- 64 E1 terminations
- Four fibre optic connectors (FC, SC, LC or E2000 connectors are available) for access to two STM-1 1310 or 1550nm short-haul optics
- RS232 console port
- RJ45 connector access to local and remote management
- Power terminals for redundant 48 VDC feed
- Supported by and compliant with ITU-T G.841/ Clause 7.1 and ETS 300417-3-1
- Visual indicators, as well as dry contact alarms for major and minor alarms

## Benefits

- Save rack and floor space
  - Requires less space than separate DSX and MUX equipment, making it ideal for installation in remote sites where space is limited
- Reduce installation time and costs
  - Fibre optic cable replaces large bundle of copper cabling between the DDF and network elements (MUX, ADM, switch, channel bank, DSLAM)
  - Pre-configured system, with easy service turn-up, limits requirement for special, highly-trained staff
- Lower equipment costs
  - Carrier can dedicate MUX functionality to specific applications
- Increase operational response time
  - Pre-provision alternative cross-connects, which can be automatically switched without craft dispatch for manual re-routing
- Increase quality of service (QoS)
  - Local or remote testing/monitoring for all relevant test parameters

## Ordering Information

Description	Catalogue Number
<b>ASX with wire-wrap cross-connects, singlemode LC duplex fibre optic connectors, 155 Mbps</b>	
1310 wavelength; distance: 20km	ASX-100001-LC
1310 wavelength; distance: 50km	ASX-110001-LC
1550 wavelength; distance: 80km	ASX-120001-LC
1550 wavelength; distance: 120km	ASX-130001-LC
1550 wavelength; distance: 160km	ASX-140001-LC
<b>ASX with wire-wrap cross-connects, singlemode SC fibre optic connectors, 155 Mbps, bidirectional</b>	
Tx: 1310, Rx: 1550; distance: 20km	ASX-100001-SC
Tx: 1550, Rx: 1310; distance: 20km	ASX-110001-SC
Tx: 1310, Rx: 1550; distance: 40km	ASX-120001-SC
Tx: 1550, Rx: 1310; distance: 40km	ASX-130001-SC
Tx: 1310, Rx: 1550; distance: 80km	ASX-140001-SC
Tx: 1550, Rx: 1310; distance: 80km	ASX-150001-SC



# ASX Active Digital Signal Cross-Connect

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## Ordering Information

Description	Catalog Number
<b>ASX with LSA-PLUS® cross-connects, singlemode LC duplex fibre optic connectors, 155 Mbps</b>	
1310 wavelength; distance: 20km	ASX-100008-LC
1310 wavelength; distance: 50km	ASX-110008-LC
1550 wavelength; distance: 80km	ASX-120008-LC
1550 wavelength; distance: 120km	ASX-130008-LC
1550 wavelength; distance: 160km	ASX-140008-LC
<b>ASX with LSA-PLUS® cross-connects, singlemode SC fibre optic connectors, 155 Mbps, bidirectional</b>	
Tx: 1310, Rx: 1550; distance: 20km	ASX-100008-SC
Tx: 1550, Rx: 1310; distance: 20km	ASX-110008-SC
Tx: 1310, Rx: 1550; distance: 40km	ASX-120008-SC
Tx: 1550, Rx: 1310; distance: 40km	ASX-130008-SC
Tx: 1310, Rx: 1550; distance: 80km	ASX-140008-SC
Tx: 1550, Rx: 1310; distance: 80km	ASX-150008-SC
<b>ASX with STM-1 connector type: 1.6/5.6, 45° angled</b>	
Wire-wrap	ASX-220001
LSA-PLUS®	ASX-220008
<b>Accessories</b>	
<b>Three-conductor bantam patch cords for E1 jack interface</b>	
<b>Single plug</b>	
0,3 m	PJ712
0,92 m	PJ716
1,83 m	PJ722
3,05m	PJ1210
3,66 m	PJ1212
4,58 m	PJ1415
6,1 m	PJ1420
7,63 m	PJ1425
9,15 m	PJ1430
15,25 m	PJ1450
<b>Dual plug</b>	
0,3 m	PJ762
0,92 m	PJ766
1,83 m	PJ772
3,05m	PJ1310
3,66 m	PJ1312
6,1 m	PJ1520
7,63 m	PJ1525
9,15 m	PJ1530
15,25 m	PJ1550
<b>Category 5 RJ45 to RJ45 patch cords</b>	
1 m	7063 2 527-04
3 m	7063 2 527-10

## Ordering Information

Description	Catalogue Number
<b>Fibre optic patch cords</b>	
LC duplex connector (UPC) to LC duplex connector (UPC), 2 m	7066 1 788-52
LC duplex connector (UPC) to SC duplex connector (UPC), 2 m	7066 1 718-52
LC duplex connector (UPC) to 2 FC duplex connectors (UPC), 2 m	7066 1 528-52
<b>Universal fibre optic adapter (duplex)</b>	7061 2 203-00
<b>Fibre optic attenuator, LC 15 dB</b>	FOA-INLCO15
<b>Cross-connect wire</b>	
152 m roll	DSX-CCW/500
305 m roll	DSX-CCW/1000
601 m roll	DSX-CCW/2000
<b>Wire-wrap tool kits</b>	
Manual	AUX-0X0165
Electronic	AUX-0X0800
<b>LSA-PLUS® insertion tool</b>	6417 2 055-01

## Specifications

**Dimensions (W x H x D):** 209 x 482.6 x 254 mm

**Weight:** 15 kg

**Power:** <11 Watts, -48VDC; 0.38 Watts for each LED

### ENVIRONMENTAL

Operations: ETS300-019-2-3 class 3.2  
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 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, IEEE, IETF standards for E1 and SDH equipment

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