

Fearghas McKay Flexoptix GmbH

<https://flexoptix.net/>

Why move to fibre from UTP ?

- Scalability

- Your infrastructure will support speeds from 10Mbps to 100Gbps+
- Improved Density of interconnect media – fibre is thinner

- Choice of vendors increases

- As you move up the price chain in equipment UTP sockets are replaced by transceiver slots

- Interoperability

- Your members will want to connect over fibre by default as you grow

Form Factors

Media

MultiMode or Single Mode

Install Single Mode rather than MultiMode in your IXP suite

Power

Maximum Distance

Decreases as power increases

You will probably need a mix of SR and LR options depending on the IXP location

Form Factor	Media	Speed	Max Distance
SFP	MultiMode	100Mbs-1Gbps	300m
	Single Mode	100Mbs-1Gbps	120km
SFP+	MultiMode	1-10Gbps	300m
	Single Mode	1-10Gbps	120km
XFP	MultiMode	10Gbps	300m
	Single Mode	10Gbps	120km
SFP28	MultiMode	25Gbps	300m
	Single Mode	25Gbps	20km

Form Factor	Media	Speed	Max Distance
QSFP+	MultiMode	40Gbps / 4x10Gbps	300m
	Single Mode	40Gbps / 4x10Gbps	30km
QSFP28	MultiMode	100Gbps	300m
	Single Mode	100Gbps	20km
X2 (Legacy)	MultiMode	10Gbps	300m
	Single Mode	10Gbps	10km
XENPAK (Legacy)	MultiMode	10Gbps	300m
	Single Mode	10Gbps	10km

The flexBox

The tool to configure, measure and analyse optics

Designed and built in house, provided free to all our customers

Enables customers to configure and reconfigure optics to almost any platform

Allows support@flexoptix to remotely query an optic with a customer

Allows power measurements and miniOTDR functionality

ISOC and Flexoptix – IXP support programme

ISOC provides the funding to IXPs

Flexoptix provides special pricing and direct support

Madagascar

Nigeria

Gambia

South Africa

Kenya

Ghana

Uganda

Rwanda

If you are interested please talk to Jane coffin@isoc.org or Michuki mwangi@isoc.org