DKT | COMEGA

THE MOST FLEXIBLE FTU IN THE INDUSTRY.

7971X / 7972X SERIES | FTU passive units | various pigtails

FTTH NETWORKS

DKT COMEGA

OUR UNIQUE CLICK-ON INTERFACE

7971X / 7972X SERIES | FTU passive units | UK Version

INTRODUCTION

The DKT philosophy of separating the basic FTU and Gateway functionality from the Service Box, creates a neutral demarcation point between the in-home network and the operator's network. The small form factor of both FTU and gateway, combined with ease of installation due to its click-on interface, makes our solution extremely flexible, with optimized handling and efficiency.

HOW IT WORKS

DKT's FTUs consist of a neutral base/FTU in which the fiber can be mounted, connected and terminated. The active Gateway is designed as a click-on interface with the possibility for end-user activation.

The solution is built to allow the customer to perform the service activation. The combined solution for FTU and gateway services are formed in an extremely compact form factor, 88 x 88 x 65 mm, making it viewed by the customer as just another outlet.

The FTU is ideal as a 2-box solution in combination with our gateways and 3rd party routers.

Passive FTU with protective cover appearing as any other outlet. **1**

Dust cover easily clicked off by the end customer. **2**

The FTU is ready to have active CPE attached. **3**

The desired CPE is attached through the click-on interface, or "stand-alone". **4**

DKT COMEGA

HIGH LEVEL SPECIFICATION

7971X / 7972X SERIES | FTU passive units

PASSIVE FIBER TERMINATION UNIT, SMALL FORM FACTOR OUTLET.

The device is used to fasten and lock 1 – 2 fibres, organized with built in splice holders.

DKT Active CPEs can be clicked on to the Fiber Termination Unit, alternatively 3rd party ONT can easily be connected via standard SC/PC adapters.
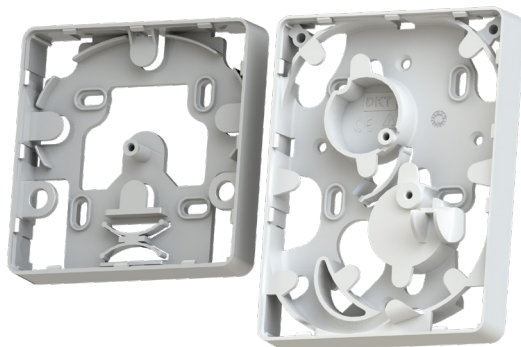
USAGE MODELS:

ACTIVE OPTICAL OUTLET

The FTU is used for fiber management, and an active device can be clicked on top.

PASSIVE OPTICAL OUTLET

If 3rd party active equipment is used, then the unit can be used as Passive Optical Outlet. The protection cover of the device can be used to secure patch cables for external connectivity, and the base plate is used for fiber management.

NEW VERSION FOR THICKER/ STIFFER CABLES

The new version of the FTU is slightly longer, making more room in the base unit for thicker and stiffer cables to be mounted.

88 x 88mm   88 x 115mm (79712)

Small form factors FTU	
Support for # of Fibers:	2
Dimensions including cover [mm]	23 x 88 x 88
Base Dimensions [mm]	15 x 88 x 88
Housing color	White

Adaptor	
Type:	SC/APC or SC/PC, Green (SC/APC) or Blue (SC/PC)
Insertion Loss: [dB]	≤ 0.20
Interchangeability: [dB]	≤ 0.20
Repeatability: [dB]	≤ 0.20
Mechanical Durability:	1000 Cycles
Operating Temperatures: [°C]	-40 – +80
Sleeves:	Zirconia sleeves

Pigtail (applicable for 79718/720 only)	
Fiber type:	G.657AI Pigtails
Fiber length: [m]	0.75
Fiber diameter: [um]	900
Fiber type:	G.657 Type A
Fiber color:	White
Connector type:	SC/APC or SC/PC

DKT COMEGA

FTU WITH OTDR REFLECTON

79709 | FTU including OTDR Reflector pigtail

Small form factors FTU		Technical index [nm]	OTDR Reflector pigtail
Working band [nm]	Transmission band	–	1260 – 1625
	Reflection band	–	1644.5 – 1655.5
Transmission band [dB]	Insertion loss	1260 – 1360	≤ 1.4
		1460 – 1600	≤ 1.4
		1600 – 1625	≤ 3.4
	Return loss	1260 – 1360	> 35
		1460 – 1580	> 35
		1580 – 1620	> 30
		1620 – 1625	> 20
Reflection band [dB]	Insertion loss	1644.5 – 1655.5	> 21
	Return loss	1644.5 – 1655.5	≤ 1.0
Polarization dependent loss [dB]		1260 – 1600	≤ 0.4
Ripple [dB]		1644.5 – 1655.5	≤ 0.6
TDL [dB]		1260 – 1600	≤ 0.5
Maximum Optical power [dBm]		–	27
Plug times [times]		–	> 500
Connector type		–	SC/UPC
Pigtail type		–	G657A1 0.9 Loose tube 2.0 SC parts
Transmission direction		–	unidirectional
Operating temperature [°C]		–	-20 – 60
Working humidity [%]		–	5 – 95
Storage temperature [°C]		–	-40 – 85
Storage humidity [%]		–	5 – 95
Item No.			**79709**

OTDR REFLECTOR PIGTAIL

The 1650 nm mirror reflects all wavelengths between 1645 nm and 1655 nm.
Due to its small insertion loss in the transmission wavelength range and high reflectance in the reflection wavelength range, it is an ideal optical end for FTTx network link monitoring.
This pigtail enables a high reflectivity on the PON side without affecting communication.
The OTDR pigtail is included in DKT FTU product with standart pigtail for SC/APC.