### 7973×/74× juma/forsete series fiber ftu/cpe for ftth, managed gigabit point-to-point ethemet

Built upon the strong DKTCOMEGA CPE/gateway product line, this is a new series of Fiber Termination Units / Wall Outlet that offers operators an easy FTTH Termination demarcation point in euro connector size. The series include a passive part to be installed during fiber termination as well as several active parts to be installed by the end-customer.



79742 FTU/CPE, 4-port RJ-45, CATV

### High level specifications:

Hardware
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100/1000 Base-BX-U auto sense WAN

The following is applicable for 79734:

1x 10/100/1000 Base-T (RJ-45) LAN The following is applicable for 79741/2: 4x 10/100/1000 Base-T (RJ-45) LAN

#### **Optical Interface**

SMF ITU-T G.652 Optical Connector: SC/UPC TX 1260 - 1360 nm RX 1480 - 1580 nm 15km range Laser Class 1

#### Ethernet

Auto-negotiating full/half duplex Auto-MDI/MDIX Layer 2 wire speed packet switching IEEE 802.1Q VLANs (4k VLANs) incl Q-in-Q IEEE 802.1Q tag insertion and stripping DHCP relay/Option 82 4k MAC address database Ingress and egress rate limiting IGMP v1/2/3 snooping Support for Jumbo Frames QoS

IEEE 802.1p prioritization and reclassification

4 QoS queues per port

DSCP/ToS

#### Management

DKT OS based on Linux, provisioning via DHCP/TFTP TELNET

SSH

SNMP v1/2/3

OAM as option supporting IEEE 802.3ah, Dying Gasp, Discovery and Loopback Future options

TR-069, including support for TR-181

#### CATV

The following is applicable for 79742:

1x RF-out F-connector (75 Ohm)

Optical wavelength: 1310 ... 1550 nm Max optical input level: 0 dBm Operational optical input level: -10 ... -3 dBm RF bandwidth: 65 ... 1006 MHz

RF output: 84 dBuV

RF flatness: <+/- 1dB

CNR: > 49 dB

CSO: > 60 dB CTB: > 60 dB

#### Status LEDs

WAN link/activity LAN link/activity Power On CATV (when applicable): < -10 dBm (red) > -10dBm (green)

#### **Power Characteristics**

Power supply: External 5VDC, 2A

Europlug, white color

Power dissipation: <4.5W typical

#### **Environmental Specifications**

Operating temperature: 0°C to 40°C Max operating humidity: 85% RH

(non-condensing)

Storage temperature: 0°C to 70°C

Max storage humidity: 95% RH (non-condensing)

#### **Physical Characteristics**

Operating temperature: 0°C to 40°C Dimensions (H x D x W):

TBD x 88 x 88 mm Weight: <0.3kg

#### Approvals and Certifications

CE marking Safety EN 60950 Emission: EN55022 Class B

**KTCOMEGA** 

The device layout is based on a standard euro outlet form factor, customer perceives this unit as an outlet, not "yet another appliance in my house". Analogy to power, CATV and telephony outlet, where the utility company and the operator make a clear demarcation point between the network and home installation. Comes as standard with 1x SC/ UPC + 1x SC/APC, based on a none proprietary solution, can be adopted in environments with 3rd party equipment. Low power dissipation, supporting the recommendation of "Code of Conduct on Energy Consumption of Broadband Equipment".

#### Ordering Information:

79734 - 1x 10/100/1000 Base-T LAN with 100/1000 Base-Bx WAN uplink, FTU has to be ordered separately 79741 - 4x 10/100/1000 Base-T LAN with 100/1000 Base-Bx WAN uplink, FTU has to be ordered separately 79742 - 4x 10/100/1000 Base-T LAN with 100/1000 Base-Bx WAN uplink + CATV, FTU has to be ordered separately

## high level specifications:

#### **Passive Fiber Termination Unit**

Pigtail (applicable for 79700/720 only)	
Fiber length:	0.75m
Fiber diameter:	900um
Fiber type:	G.657 Type A
Fiber color:	White
Connector type:	SC/APC or SC/PC
Adaptor	
Туре:	SC/APC or SC/PC
Housing color:	Green (SC/APC) or Blue (SC/PC)
Insertion Loss:	≤0.20dB
Interchangeability:	≤0.20dB
Repeatability:	≤0.20dB
Mechanical Durability:	1000 Cycles
Operating Temperatures:	-40°C to +80°C
Sleeves:	Zirconia sleeves

The Passive Fiber Termination Unit consists of two pieces, one part for fiber management and one protection part curved cover.

#### Usage models:

Active Optical Outlet

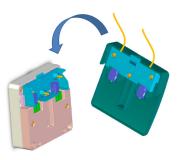
The bottom part is used for fiber management, the protection cover is removed, and an active part can be clicked on top of the bottom part.

#### **Passive Optical Outlet**

If 3rd party active equipment is used, such as switches and routers, then the unit can be used as Passive Optical Outlet. The protection part of the device can be used to secure patch cables for external connectivity, whereas the bottom part is used for fiber management.



The FTU used as part of an Active Optical outlet solution: The FTU is used for fiber management, and the active part, clickable on top of FTU.



The FTU used as Passive Optical Outlet: Protection Cover, secure fasten of patch cables, used for externally connectivity

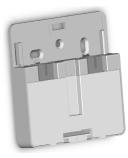
#### Ordering Information:

The 79700 is included in the active products, but can also be ordered separately 79700 - 1x Passive FTU with 2 pigtails, SC/PC + SC/APC adapters, fiber management and dust protection cover 79716 - 1x Passive FTU without pigtails, SC/PC + SC/APC adapters, with fiber management and dust protection cover 79718 - 1x Passive FTU with 2 pigtails, SC/PC + SC/APC adapters, with fiber management and dust protection cover 79719 - 1x Passive FTU with 2 pigtails, 2x SC/PC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/PC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/PC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 79720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 70720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 70720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 70720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 70720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management and dust protection cover 70720 - 1x Passive FTU with 2 pigtails, 2x SC/APC adapters, with fiber management adapters, 2x SC/APC adapters, 2x SC/APC

# high level specifications:

#### Passive Fiber Termination Unit, Small Form Factor

Small Form Factor FTU	
Fiber Type:	3000um fiber patch cord
Support for # of Fibers:	2
Dimensions including cover	23 x 88 x 88mm
Base Dimensions	15 x 88 x 88 mm
Adaptor	
Туре:	SC/APC or SC/PC
Housing color:	Green (SC/APC) or Blue (SC/PC)
Insertion Loss:	≤0.20dB
Interchangeability:	≤0.20dB
Repeatability:	≤0.20dB
Mechanical Durability:	1000 Cycles
Operating Temperatures:	-40°C to +80°C
Sleeves:	Zirconia sleeves



The Small Form Factor Fiber Termination Unit consists of two pieces, one part for fiber installation (with cover lid) and one protection part curved cover, which is identical with other DKT products.

#### Passive Optical Outlet

The device is used to fasten and lock 2 optical patch cords, which are connected to an external fiber management device.

DKT Active CPEs can be clicked on to the Fiber Termination Unit.

#### Ordering Information:

79717 - 1x Passive FTU without pigtails, SC/APC + SC/APC adapters, small form factor with cabinet for patch cord installation