

# Tilgin MSA974/5

## Managed Fiber Solution

Tilgin's MSA974/5 in the series of managed FTTH solutions offer operators a small and flexible fiber termination point suitable for open access networks.

MSA974/5 include a generic passive part to be installed during fiber termination and an active part that also can be installed by the end-user.



The generic passive fiber termination unit, FTU970



Complete MSA974 with FTU970 but without top cover.

MSA974/5 is an important part in our flexible premises solution portfolio. The MSA970 has the ability to separate the home gateway from the fiber entrance in the home. The MSA974/5 together with FTU970 handles winding and splicing of multiple fiber strands in an intelligent manner. Discreet and easy to install the MSA974/5 is the optimal solution for a modern FTTH installation.

It gives the end users the possibility to place the gateway in the best possible location in the premises, taking wireless coverage and cabling into consideration. The MSA970 easy-click's system allows end-users to handle the MSA970 themselves and enable them to replace or upgrade the MSA970.

With its 4 LAN ports it is the perfect fit in an open access network where each internet service provider in the network can have a dedicated port assigned to its services.

In a normal open access configuration, the unit acts as a network bridge supporting wireline switching, but the unit is also capable to offer advanced gigabit routed services as defined by the Seliro Device Software Platform.

A version with a built in RF module is available, suitable in networks where CATV is distributed over a fiber network. The solution also offers two built in RF filters, allowing the operator to offer different TV packages.

The MSA974/5 is TR-069 manageable as a standalone device in the operator network. The device also has a local GUI.

Active unit	WAN Fiber Ports	LAN Ethernet Ports	RF output
MSA974	1 x 1000 BASE-BX single mode	4 X 1000 Base-TX	1
MSA975	1 x 1000 BASE-BX single mode	4 X 1000 Base-TX	-

WAN	RF (MSA974 only)	Networking
100/1000 Base-BX-U, 1310 nm, 1490/1550 nm, 10 km Optical Connector: SC/UPC	Optical wavelength: 1310 to 1600 nm Optical Connector: SC/APC	Traffic classification based on ingress port, 802.1q, 802.1p, DSCP, MAC address, IP protocol, IPv4/IPv6 address, IP packet length, UDP/TCP ports.
<b>LAN</b> 4 x 10/100/1000 Base-TX Connector: RJ45 Auto negotiation, Auto MDI/MDI-X	Operational optical signal level range: -10 dBm to 0 dBm 1 x RF-out F-connector (75 Ohm) RF bandwidth: 45 - 890 MHz RF flatness: +/- 1dB	Stacked VLAN support Ingress port and flow based policing Programmable support for traffic monitoring Support for jumbo frames
<b>Management</b> TR-069 management Management via local GUI Allows control of and retrieval of Interface statistics, 802.1p/q configuration, RF filter control, software update, Management IP address via DHCP or static configuration Support for 802.3ah OAM v1&v2	CNR: > 48 dB, CSO: > 60dB, CTB: > 60 dB <sup>1)</sup> Built in manageable RF filters with pass band at: 45 - 431 MHz, 45 - 591 MHz and 45 - 890 MHz Optical input level AGC with AGC on/off function RF output level is fixed to 80 dBuV with AGC on RF output level is settable in steps of 1 dB with AGC off Min/Max RF level is 68/88 dBuV at -5 dBm optical input 1) Guaranteed at -7 dBm input signal, OMI 4.5%	<b>Regulatory Compliances</b> CE mark, WEEE, RoHS <b>other</b> LED for Status/Power, copper interface, fiber interface, CATV
	<b>Networking</b> 2048 MAC address table entries Full 4K width VLAN support Support for up to 64 simultaneous active VLAN 32 CoS queues	<b>Physical Specifications</b> Dimension 55*135*135 mm Weight: < 500 g Operating temperature: 0-40C/ 32-104F Non-operating temperature: -20-70C/ -4-158F Operating humidity, RH, non-condensing: 10-95% Non-operating humidity, RH, non-condensing: 5-95% External power supply: In: 100-240VAC

