nag®
Follow the Expert

XPON solutions catalogue

NAG offers wide range of solutions for PON networks. We supply everything from simple models to multifunctional TriplePlay devices. Final solution will depend on the list of services you plan to provide to your customers. Some models provide support for traditional cable TV services.

Solution for xPON + CATV

In our store you can find a wide selection of subscriber devices with RF output. The main advantage of this solution is that there is no need to convert the signal from CATV to Multicast or Unicast while it remains possible to control the delivery of the service using WEB/SNMP/CLI control of the CATV receiver on the ONT itself.

A single-port SNR subscriber device for PON networks can be made in EPON and GPON versions. In addition, there are options with 1 or 4 GE ports, as well as Wi-Fi with both 2.4Ghz and dualband 2.4/5 Ghz.
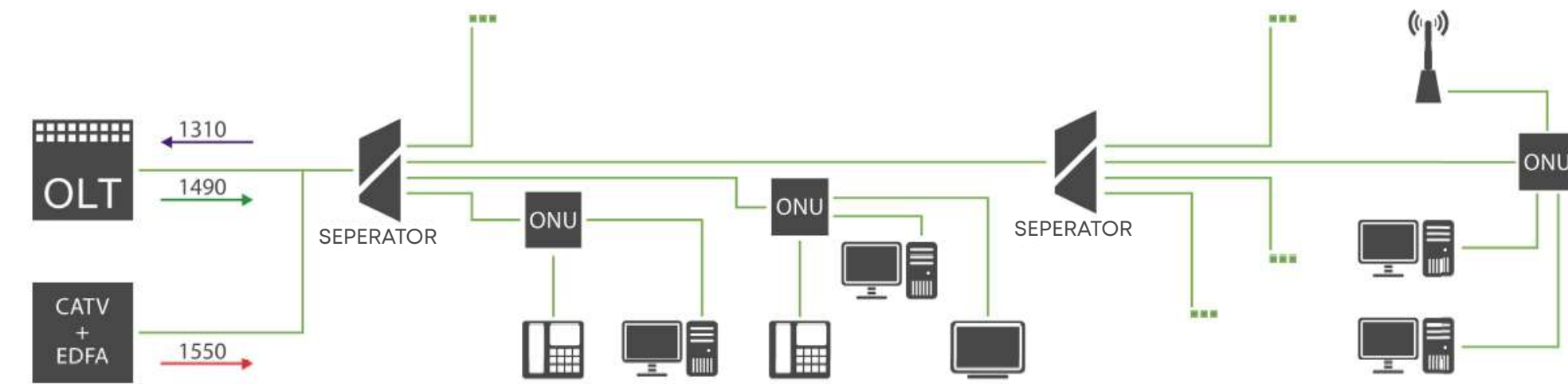
As an example, we provide here the calculation of the cost per subscriber using EPON and GPON technology.
A set of equipment to include 256 clients with the provision of Cable TV service:

- For EPON networks (based on BDCOM) it will cost ~ $ 40 per subscriber;
- For GPON networks (based on Dasan) it will cost ~ $50 per subscriber.

SUBSCRIBER DEVICES WITH RF OUTPUT AND THEIR CHARACTERISTICS:

Model	Technology	Number of electrical ports	Wi-Fi support	NAT Support	RF port (for Cable TV)
SNR-ONU-EPON-1G-RF	EPON	1 x GE	-	+	+
SNR-ONU-EPON-4G-RF	EPON	4 x GE	-	+	+
SNR-ONU-EPON-4G-RF-W	EPON	4 x GE	+	+	+
SNR-ONU-GPON-1G-RF	GPON	1 x GE	-	+	+
SNR-ONU-GPON-4G-RF	GPON	4 x GE	-	+	+
SNR-ONU-GPON-4G-RF-W	GPON	4 x GE	+	+	+
SNR-ONU-GPON-4G-DW-RF	GPON	4 x GE	+	+	+

Chosing between EPON and GPON

**IN 2019, WE ADDED TO OUR STORE
A NEW XPON SUBSCRIBER DEVICE.**

XPON subscriber equipment works in both EPON and GPON networks, thanks to the universal optical transceiver and software refinement. We recommend to use these ONTs in networks where it is planned to switch from EPON OLT to GPON in the future.

Connecting a switch, CPE, IP camera or other device with an SFP port using PON technology is no longer a problem, thanks to SNR-SFP-ONU-XPON. This SFP transceiver with an integrated xPON module allows you to get rid of unnecessary intermediate devices and connect the end device directly to the PON. The new xPON chip now not only works stably at high temperatures, but also supports up to 2048 MAC addresses.

Model	Technology	Number of electrical ports	Wi-Fi support	NAT Support	RF port (for Cable TV)
SNR-SFP-ONU-XPON	xPON	-	-	-	-
BO-ONU-XPON-1G-mini	xPON	1 x GE	-	+	-
SNR-ONU-XPON-1G-mini	xPON	1 x GE	-	+	-

Inexpensive solution

AS THE MOST COST EFFECTIVE, A SPECIAL SOLUTION HAS BEEN PREPARED UNDER THE B-OPTIX BRAND

The B-Optix brand symbolizes a working solution at an affordable price. B-Optix subscriber terminals are compatible with the main OLT manufacturers* (C-DATA, BDCOM, ZTE, Huawei, DASAN).

Model	Technology	Number of electrical ports	Wi-Fi support	NAT Support	RF port (for Cable TV)
BO-ONU-EPON-1G-mini	EPON	1 x GE	-	+	-
BO-ONU-GPON-1G-mini	GPON	1 x GE	-	+	-
BO-ONU-XPON-1G-mini	xPON	1 x GE	-	+	-

In addition, it is possible to customize a model according to your technical requirements.

OLT models

SNR OLT MODELS ARE UNIVERSAL SOLUTIONS BOTH FOR SMALL AND LARGE XPON NETWORKS.

SNR OLT can support capacities from 4x128 to 16x128 ONUs per unit. SNR OLT provides a convinient system for automatic addition and configuration of subscriber devices. In addition, there is no vendor binding of subscriber devices on OLT SNR, which allows to use SNR and BO subscriber terminals.

SNR OLT IN OUR STORE IS REPRESENTED BY THE FOLLOWING ITEMS

OLT model	Technology	Quantity of PON ports	Number of ONUs per PON port	10G Uplink	L3 support	Replaceable power supplies
SNR-OLT-GPON-4-2AC	GPON	4	128	-	-	-
SNR-OLT-GPON-8-2AC	GPON	8	128	+	+	+
SNR-OLT-GPON-16-2AC	GPON	16	128	+	+	+
SNR-OLT-XGSPON-8-2AC	XGSPON/GPON	8	128	+	+	+

SNR AND BO OPTICAL MODULES FOR GPON OLT

SFP model	Technology	Range	Optical budget
SNR-SFP-W43-GPON-C+	GPON	Up to 20km	32dB
SNR-SFP-W43-GPON-C++	GPON	Up to 20km	35dB
SNR-SFP-W43-GPON-C+++	GPON	Up to 20km	37dB
BO-SFP-W43-GPON-C+	GPON	Up to 20km	32dB
BO-SFP-W43-GPON-C++	GPON	Up to 20km	35dB
BO-SFP-W43-GPON-C+++	GPON	Up to 20km	37dB

ONT portfolio - part 1

Our SNR and BO subscriber devices are fully compatible with EPON/GPON/XGS-PON equipment of key vendors.
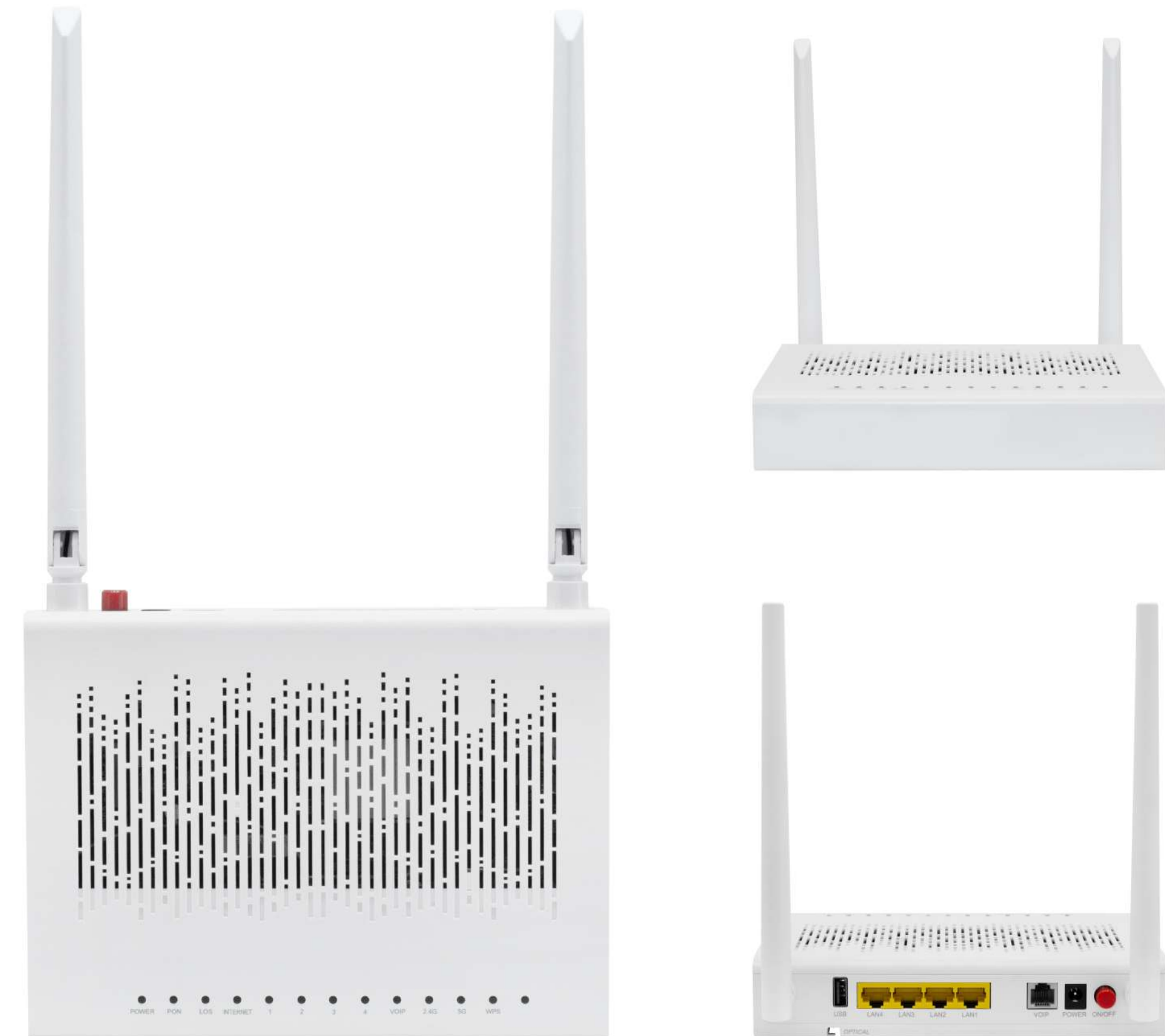Below you can find our ONT models with main parameters.

Model	Technology	Number of electrical ports	Wi-Fi support	POTS Availability	NAT Support	RF-port (for Cable TV)	POE Support
SNR-ONU-EPON-1G-RF	EPON	1 x GE	-	-	+	+	-
SNR-ONU-EPON-4G-RF	EPON	4 x GE	-	-	+	+	-
SNR-ONU-EPON-4G-RF-W	EPON	4 x GE	+	-	+	+	-
SNR-ONU-GPON-1G-RF	XPON	1 x GE	-	-	+	+	-
SNR-ONU-GPON-4G-RF	XPON	4 x GE	-	-	+	+	-
SNR-ONU-GPON-4G-RF-W	XPON	4 x GE	+	-	+	+	-
SNR-ONU-GPON-4G-DW	XPON	4 x GE	+	-	+	-	-
SNR-ONU-EPON-1G-mini	EPON	1 x GE	-	-	+	-	-
SNR-ONU-EPON-2G-1P	EPON	2 x GE	-	+	+	-	-
SNR-ONU-EPON-4F	EPON	4 x FE	-	-	+	-	-
SNR-ONU-EPON-8F-POE	EPON	8 x FE	-	-	+	-	+
SNR-ONU-EPON-8F	EPON	8 x FE	-	-	+	-	-
SNR-ONU-GPON-1G-W	XPON	1 x GE	+	-	+	-	-
SNR-ONU-GPON-1G-mini-apc	XPON	1 x GE	-	-	+	-	-
SNR-ONU-GPON-1G-miniC+	XPON	1 x GE	-	-	+	-	-
SNR-ONU-GPON-1G-mini	XPON	1 x GE	-	-	+	-	-

ONT portfolio - part 2

Our SNR and BO subscriber devices are fully compatible with EPON/GPON/XGS-PON equipment of key vendors.
Below you can find our ONT models with main parameters.

Model	Technology	Number of electrical ports	Wi-Fi support	POTS Availability	NAT Support	RF-port (for Cable TV)	POE Support
SNR-ONU-GPON-1G-mini-apc-C+	XPON	1 x GE	-	-	+	-	-
SNR-ONU-GPON-4E-POE	XPON	4 x FE	-	-	+	-	+
SNR-ONU-GPON-4G	XPON	4 x GE	-	-	+	-	-
SNR-ONU-GPON-4G-1P-DW	XPON	4 x GE	+	+	+	-	-
SNR-ONU-GPON-4E-2P-DW	XPON	4 x FE	+	+	+	-	-
SNR-ONU-GPON-4G-2P-DW	XPON	4 x GE	+	+	+	-	-
SNR-ONU-GPON-4G-2P-DW-RF	XPON	4 x GE	+	+	+	+	-
SNR-ONU-GPON-4G-W	XPON	4 x GE	+	-	+	-	-
SNR-ONU-GPON-4G-DW-APC-C+	XPON	4 x GE	+	-	+	-	-
SNR-ONU-XPON-1G-mini	XPON	1 x GE	-	-	+	-	-
SNR-ONU-GPON-2E-1P-W	XPON	2 x FE	+	+	+	-	-
SNR-ONU-GPON-2E-W-RF	XPON	2 x FE	+	-	+	+	-
BO-ONU-EPON-1G-mini	EPON	1 x GE	-	-	+	-	-
BO-ONU-GPON-1G-mini	GPON	1 x GE	-	-	+	-	-
BO-ONU-XPON-1G-mini	XPON	1 x GE	-	-	+	-	-

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