

Integrated Networking Solutions

Subscriber optical terminals ONT NTU-1 ONT NTU-1C

Administrator manual Firmware version 3.28.5

> IP address: http://192.168.1.1 User name: admin Password: kW5i_1bYC6os



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NOTES AND WARNINGS

The notes contain important information, tips or recommendations on device operation and setup.



Warnings inform of the situations when actions may harm the device or a user, lead to fault operation of the device or data loss.

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1 INTRODUCTION

GPON network belongs to one of the varieties of passive optical PON networks. This is one of the most modern and effective solutions for "last mile", which allows significant savings on cable infrastructure and provides data transmission speed of up to 2.5 Gbps downlink and 1.25 Gbps uplink. The use of GPON-based solutions in access networks makes it possible to provide end users with new IP services together with traditional ones.

The main advantage of GPON is the use of a single line terminal (OLT) for multiple subscriber devices (ONT). OLT is a converter of Gigabit Ethernet and GPON interfaces, which serves to connect the PON network with higher-level data transmission networks. The ONT device is designed to connect customers' equipment to broadband access services. It can be used in residential areas and business centers.

This user manual describes the purpose, main technical specifications, configuration rules and monitoring of NTU-1, NTU-1C, NTU-1C rev.B and NTU-1C rev.C (hereinafter NTU-1 and NTU-1C respectively) optical terminals.

2 DEVICE DESCRIPTION

2.1 Purpose

NTU-1, NTU-1C GPON ONT (Gigabit Ethernet Passive Optical Network) devices are high-performance network terminals designed for connection with upstream GPON equipment and providing end user with broadcast access services. GPON connection is established through the PON interface, while Ethernet interface is used for connection of network devices. A distinctive feature of the NTU-1, NTU-1C user terminals is that the devices might be powered through the twisted pair cable in an Ethernet network (over distance of up to 40 meters).

The key GPON advantage is the optimal use of bandwidth. The technology is the next step of high-speed Internet connection for homes and offices. Designed to deploy a network inside home or office building, the devices provide reliable connection with high bandwidth over long distances for users living and working in remote apartment buildings and business centers.

NTU-1, NTU-1C devices have the following interfaces:

Model Name	WAN	LAN	FXS	RF	Wi-Fi	USB
NTU-1	1 × GPON	1 × 1Gigabit	-	-	-	-
NTU-1C	1 × GPON	1 × 1Gigabit	-	1	-	-

Table 1 – Interfaces configuration

2.2 Device Specification

The devices have the following interfaces:

- 1 PON SC/APC port for connection to operator's network;
- 1 Ethernet RJ-45 LAN ports for connection of network devices;
- For NTU-1C only: 1 RF port for CaTV service provisioning.

The terminal uses an external adapter for 220 V / 12 V power supply. It is also possible to power the device via the Ethernet-cable UTP CAT-5E (when using GRT-120100A power supply), the maximum distance – 40 meters for NTU-1 and 25 meters for NTU-1C.

The device supports the following functions:

- Network functions:
- bridge mode;
- QoS;
- IGMP-snooping.
- Firmware update via web interface, OMCI.
- Remote monitoring, configuration, and setup via OMCI.

Fig. 1 shows a diagram of the NTU-1, NTU-1C equipment connection.



Figure 1 – Connection of NTU-1, NTU-1C

2.3 Key specifications

Table 2 lists key specifications of the terminals.

Table 2 - Key specifications

Parameters of Ethernet LAN Interface

Number of interfaces	1
Socket	RJ-45
Data rata	Auto-negotiation, 10/100/1000 Mbps,
Data fate	duplex/half-duplex
	IEEE 802.3i 10BASE-T Ethernet
	IEEE 802.3u 100BASE -TX Fast Ethernet
Supported standards	IEEE 802.3ab 1000BASE-T Gigabit Ethernet
	IEEE 802.3x Flow Control
	IEEE 802.3 NWay auto-negotiation
	IEEE 802.3 NWay auto-negotiation

Parameters of PON Interface

Number of PON interfaces	1
Supported standards	ITU-T G.984.x Gigabit-capable passive optical networks (GPON) ITU-T G.988 ONU management and control interface (OMCI) specification FSAN Class B+ SFF-8472 IEEE 802.1Q Tagged VLAN IEEE 802.1p Priority Queues IEEE 802.1D Spanning Tree Protocol
Connector type	SC/APC according to ITU-T G.984.2



Transmission medium		fiber optical cable SMF-9/125, G.652			
Splitting ratio		up to 1:64	up to 1:64		
Maximum range of coverage		20 km	20 km		
Transmitter:		1310 nm			
Upstream conr	ection speed	1244 Mbps			
Transmitter po	wer	from +0.5 to +5 dBm			
Optical spectru	m width (RMS)	1 nm	1 nm		
Receiver		1490 nm			
Downstream connection speed		2488 Mbps			
Downstream to					
Receiver sensitivity		-28 dBm			
Receiver Optical Overload		-4 dBm	-4 dBm		
Control					
Local control		Web interface			
Remote control		OMCI			
Firmware update		OMCI, HTTP			
Access restriction		By password			
General parar	neters				
		12 V DC / 220 AC power adapter;			
Davida availa		Remote power on the Ethernet-cable	Remote power on the Ethernet-cable UTP CAT-5E		
Power supply		NTU-1	NTU-1C		
		up to 40 m ¹	up to 25 m ¹		
Maximum power consumption		5 W			
Operating temperature range		from +5 to 40 °C			
Relative humidity		up to 80 %			
Dimensions	NTU-1	112 × 32 × 100 mm			
$(W \times H \times D)$	NTU-1C	160 × 40 × 124 mm			
Mainht	NTU-1	0.250 kg	0.250 kg		
weight	NTU-1C	0.265 kg	0.265 kg		

2.4 Design

2.4.1 NTU-1

NTU-1 series devices are designed as a $112 \times 100 \times 32$ mm desktop device in a plastic housing.

Fig. 2 shows NTU-1 rear panel.



Figure 2 – NTU-1 rear panel

¹ When using GRT-130100A, SSM-1330-1000A PoE injectors



Connectors and controls located on the rear panel of NTU-1 are listed in Table 3.

	Rear Panel Element	Description
1	12V	Connector for the power adapter
2	10/100/1000	RJ-45 10/100/1000BASE-T port for network devices connection
3	PON	SC port (socket) for connection to PON network

Table 3 – Description of connectors and control elements located on the rear panel

Fig. 3 shows NTU-1 side and top panels.





Figure 3 – NTU-1 top and side panel

Controls and LED indicators located on NTU-1 side and top panels are listed below, in Table 4.

	Table 4 – Descrip	tion of LEDs and contr	ol elements located	on the side and top p	anels
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Par	nel Element	Description	
4	Power	Power supply indicator	
5	Status	Device authentication indicator	
6	Link Act.	Indicator of the Ethernet port	
7	Speed	Connection data rate indicator	
7	Speed	Connection data rate indicator	

8	PON Link	Optical interface indicator
9	PON Alarm	Indicator of line network terminal connection status
10	Reset	A functional key that reboots the device and resets it to the factory settings

2.4.2 NTU-1C

NTU-1C series devices are designed as a 160 × 40 × 124 mm desktop device in a plastic housing.

Fig. 4 shows NTU-1C rear panel.



Figure 4 – NTU-1 rear panel

Connectors and control elements located on the rear panel of NTU-1C are listed in Table 5.

	Rear panel element	Description
1	12V	Connector for the power adapter
2	F	A functional key that reboots the device and resets it to the factory settings
3	RF port	Port for cable TV connection
4	10/100/1000	RJ-45 10/100/1000BASE-T port for connection of network devices
5	PON	PON SC port (socket) for connection to PON network

Table 5 – Description of connectors and control elements located on the rear panel

Fig. 5 shows NTU-1C top panel.





Table 6 – Description of LEDs located on the top panel

Тор р	anel element	Description	
1	τν	CaTV signal indicator	
2	PON Alarm	Indicator of line network terminal connection status	
3	PON Link	Optical interface indicator	
4	Link/Act.	Ethernet port indicator	
5	Status	Device authentication indicator	
6	Power	Power supply indicator	

2.5 Light Indication

The indicators located on the top panel show the device current status.

Table 7 lists possible statuses of the LEDs.

Table 7 – Light Indication of NTU-1 Status

LED	LED Status	Device Status
Power	off	Device is disconnected from the power source or faulty
	off	Device is loading or has default configuration
Status	orange	Getting configuration by OMCI is in progress
Status	red	An error occurred while configuration via OMCI
	green	OMCI configuration has been successfully completed, the device operates properly
	off	There is no connection to the LAN-port
Link Act.	green	Established LAN connection
	flashes	Data transmission is in progress
	off	There is no connection to the LAN-port
Speed	orange	Established 1000 Mbps connection
	green	Established 10/100 Mbps connection
	off	No signal from optical line terminal
DONLink	flashes slowly	Device is not registered on optical line terminal
POINLIIIK	groop	A connection between optical line terminal and the device has been successfully
	green	established
PON Alarm	off	A connection between optical line terminal and the device is established
PON Alarm	red	No signal from optical line terminal

Table 8 – Light Indication of NTU-1 Status

LED	LED Status	Device Status
	off	RF port is off
T1/	red	CaTV signal power < -10 dBm or > +3 dBm
10	orange	CaTV signal power in the range of -10 dBm8 dBm or +2 dBm +3 dBm
	green	-8 dBm < CaTV signal power < +2 dBm
Power	off	Device is disconnected from the power source or faulty
	off	Device is loading or has default configuration
Charters	orange	Getting configuration by OMCI is in progress
Status	red	An error occurred while configuration via OMCI
	green	OMCI configuration has been successfully completed, the device operates properly
Link Act	off	There is no connection to the LAN-port
	green	Established 10/100 Mbps LAN connection



_		
	orange	Established 1000 Mbps LAN connection
	flashes	Data transmission is in progress
PON Link	off	No signal from optical line terminal
	flashes slowly	Device is not registered on optical line terminal
	flashes rapidly	Data transmission is in progress
	green	A connection between optical line terminal and the device has been successfully established
DON Alarma	off	A connection between optical line terminal and the device is established
PON Alarm	red	No signal from optical line terminal

2.6 Reboot and Reset to Factory Settings

To reboot NTU-1, press the *Reset* button once on the device side panel. To reset NTU-1 to factory settings, press the *Reset* button and hold it for 7-10 seconds.

To reboot NTU-1C, press the *F* button once on the device rare panel. To reset NTU-1C to factory settings, press the *F* button and hold it for 7-10 seconds.

By default: IP address LAN – 192.168.1.1, subnet mask – 255.255.255.0.

2.7 Delivery Package

The basic delivery package of NTU-1, NTU-1C includes:

- NTU-1 or NTU-1C optical network terminal;
- 220 V / 12 V power adapter;
- Installation and initial configuration guide.



3 NTU CONFIGURATION THROUGH WEB INTERFACE. ADMIN ACCESS

Device configuration requires accessing the device through a web browser, such as Firefox or Google Chrome. To do this, enter the device IP address in the browser address bar (factory settings are 192.168.1.1, subnet mask – 255.255.255.0).

When the address is entered, the device will require user to log in.

User name: admin, password: kW5i_1bYC6os.

In order to prevent unauthorized access to the device, it is recommended to change the password (see section **3.5.4**).

Given below is a general view of the device configuration window. A navigation tree for object settings is in the left pane, while the settings to edit is on the right.

Сестех		NTU-1
Status LAN Advance Diagnostics	Device Status This page shows the cr	urrent status and some basic settings of the device.
	System	
Statistics	Device Name	PON Bridge
	Uptime	2 min
	Firmware Version	3.28.5.10
	CPU Usage	0%
	Memory Usage	34%
	LANConfiguration	
	IP Address	192.168.1.1
	Subnet Mask	255.255.255.0
	MAC Address	e828clc9d039
	Refresh	

3.1 The 'Status' menu. Information about the status of the device

3.1.1. The 'Device' submenu. Device General Information

This tab displays the current status and some basic settings of the device.

System		
Device Name	PON Bridge	
Uptime	3 min	
Firmware Version	3.28.5.10	
CPU Usage	0%	
Memory Usage	34%	
LANConfiguration		
IP Address	192.168.1.1	
Subnet Mask	255.255.255.0	
MAC Address	e828c1c9d039	

System:

- Device Name;
- *Uptime* time from the last device reboot;
- Firmware Version;
- CPU Usage utilization of CPU in percent;
- Memory Usage utilization of memory in percent.

LAN Configuration:

- IP Address device address in local network;
- Subnet Mask;
- MAC Address device MAC address.

Click the *Refresh* button to update the information.

3.1.2. The 'PON' submenu. Information on the status of the optical module

This tab contains detailed information about PON interface.

Pon Status		
Vendor Name		
Part Number		
Temperature	51.714844 C	
Voltage	3.385500 V	
Tx Power	2.510059 dBm	
Rx Power	-inf dBm	
Bias Current	14.664000 mA	

- Vendor Name optical module manufacturing company;
- *Part Number* a model of the optical module;
- *Temperature* optical module temperature, °C;
- Voltage power supply voltage, V;
- Tx Power level of transmitted signal (1310 nm), dBm;
- Rx Power level of received signal (1490 nm), dBm;
- Bias Current bias current, mA.

Click the *Refresh* button to update the information.

3.2 The 'LAN' menu. LAN Interface Settings

Use this tab to configure basic LAN interface settings.

LAN Interface Setting]5
This page is used to co the setting for IP addre	nfigure the LAN interface of your Device. Here you may change sses, subnet mask, etc
Interface Name:	br0
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
IGMP Snooping:	Disabled Interview Enabled
Apply Changes	

- Interface Name;
- IP Address device address in local network;
- Subnet mask;

- *IGMP Snooping* – turn on (enabled)/off (disabled) IGMP Snooping function to monitor network multicast traffic.

To accept changes, click the Apply Changes button.

3.3 The 'Advance' menu. Advanced Settings

3.3.1 The 'ARP Table' submenu. List of learned MAC addresses

The efficiency of ARP operation mostly depends on ARP-cache on each host. The cache contains IP addresses and corresponding hardware addresses. The lifetime of each entry in the cache is 5 minutes from the time the record was created.

ARP Table This table shows a list of learr	ed MAC addresses.	
IP Address	MAC Address	
192.168.1.2	00-07-e9-5d-2b-07	
192.168.1.2 Refresh	00-07-e9-5d-2b-07	

The table on this tab shows a list of learned MAC addresses with corresponding IP addresses.

Click the *Refresh* button to update the information.

3.3.2 The 'Bridging' submenu. Bridging Configuration

This tab is used to configure the bridge parameters. Here you can change the settings or view the information on the bridge and its attached ports.



Bridging Configuration	
This page is used to config settings or view some info	igure the bridge parameters. Here you can change the ormation on the bridge and its attached ports.
Ageing Time:	7200 (seconds)
802.1d Spanning Tree:	Disabled Disabled
Apply Changes Show	/ MACs

- Ageing Time – lifetime of an entry in MAC table;

- *802.1d Spanning Tree* – turn on (enabled)/off (disabled) STP features to eliminate potential loops in the network topology.

To accept changes, click the *Apply Changes* button.

Click Show MACs to view MAC table of the bridge.

Port No	MAC Address	Is Local?	Ageing Timer	ar -
1	a8-f9-4b-cd-08-f4	yes		
2	a8-f9-4b-cd-08-f7	yes		
1	00-07-e9-5d-2b-07	no	0.00	

Click the *Refresh* button to update the information, to close the window – click the *Close* button.

3.4 The 'Diagnostics' menu. Diagnosis of connections

3.4.1 The 'Ping' submenu. Test the Availability of Network Devices

Use this menu to test the availability of network devices connected to the ONT. The test uses Ping utility.

Ping Diagnostics	
This page is used to a diagnostic result will	send ICMP ECHO_REQUEST packets to network host. The then be displayed.
Host Address:	
Go !	

To test the availability of the connected device, enter its IP address into the *Host Address* field and click *Go!* button. The output will be displayed at the same page of the web interface. To return to the address entry field, press the *Back* button.

PING 192.168.1.2 (192.168.1.2): 56 data bytes
64 bytes from 192.168.1.2: icmp_seq=0
64 bytes from 192.168.1.2: icmp_seq=1
64 bytes from 192.168.1.2: icmp_seq=2
ping statistics 3 packets transmitted, 3 packets received.
Back

3.5 The 'Admin' menu. Administration Settings

3.5.1 The 'GPON Settings' submenu. Settings GPON-network Access

This tab is used to configure the parameters for access to GPON network.

GPON Settings	
This page is used to cor	figure the parameters for your GPON network access.
LOID:	user
LOID Password:	password
PLOAM Password:	000000000
Serial Number:	ELXT12345678
Apply Changes	

LOID¹ – logical object identifier (user name in GPON network);

- LOID Password¹ – password to access for the logical object ID (user password in GPON network);

 PLOAM Password – set a password to access the physical layer to operate, manage and carry out other technical maintenance for the device;

- Serial Number - device PON serial number.

To accept changes, click the Apply Changes button.

ļ

Parameters on this tab are not recommended to be changed. Invalid settings will lead to the loss of connection with line optical terminal!

3.5.2 The 'Commit/Reboot' submenu. Commit changes and rebooting the device

This tab is used to apply settings and to reboot the system.



To apply changes and reboot the device, click *Commit and Reboot* button. The rebooting process takes few minutes to complete.

¹ Not supported in the current firmware version



3.5.3 The 'Backup/Restore' submenu. Configuration management

Backup and Restore Sett	ings
This page allows you to bac settings from the file which the current settings to facto	kup current settings to a file or restore the was saved previously. Besides, you could reset ry default.
Backup Settings to File:	Backup
Restore Settings from File:	Browse No file selected. Restore
Deset Cattings to	[Proved

This tab allows you to upload the current device configuration to your PC for backup. To do this, click the *Backup...* button.

To restore previously saved configuration, click *Browse* to select the file needed, then click *Restore*.

Click the *Reset* button to return to the factory settings. The device will reboot and set default parameters.

3.5.4 The 'Password' submenu. Access Control Configuration (setting passwords)

Use this tab to change passwords for device access.

Password Configuration		
This page is used to set the account to access the web server of your Device. Empty user name and password will disable the protection.		
User Name: admin 🔻		
Old Password:		
New Password:		
Confirmed Password:		
Apply Changes Reset		

To change the password, select a username, enter the current password to the *Old Password* field, then enter new password to *New Password* and *Confirmed Password* fields.



Empty fields will disable the protection.

To apply and save changes, click the *Apply Changes* button, to cancel – the *Reset* button.

3.5.5 The 'Firmware Upgrade' submenu. Firmware Update

The tab allows you to update your device firmware.

mand ?	
Inis page a	llows you upgrade the firmware to the newer version. Please
note that d	o not power off the device during the upload because this make
the system	unbootable
the system	dibootable.
	No file colorito d
Browse	No file selected.
Unarada	Reset

SELTEX

To update firmware, choose the firmware file: click *Browse* button, then click *Upgrade*. If you select an incorrect file, you can delete it using the *Reset* button.



Do not disconnect the device from the power supply or reboot it while firmware is updating. The firmware update takes few minutes after which the device will be rebooted automatically.

3.6 The 'Statistics' menu

3.6.1 The 'Interface' submenu. Network Interface statistics

This page shows the packet statistics for transmission and reception regarding to network interface.

Interface	Rx pkt	Rx err	Rx drop	Tx pkt	Tx err	Tx drop
eth0	4385	0	0	1208	0	0
nas0_0	0	0	0	30	0	0

- Interface the name of the network interface;
- Rx pkt received packets;
- Rx err received packets with errors;
- Rx drop dropped incoming packets;
- Tx pkt transmitted packets;
- Tx err transmitted packets with errors;
- Tx drop dropped outgoing packets.

Click the *Refresh* button to update the information. In order to clear the statistics and start gathering it from the beginning, click the *Reset Statistic* button.

3.6.2 The 'PON' submenu. PON-interface statistics

The tab shows the statistics of received and sent packets for PON interface.

Bytes Sent	0
Bytes Received	0
Packets Sent	0
Packets Received	0
Unicast Packets Sent	0
Unicast Packets Received	0
Multicast Packets Sent	0
Multicast Packets Received	0
Broadcast Packets Sent	0
Broadcast Packets Received	0
FEC Errors	0
HEC Errors	0
Packets Dropped	0
Pause Packets Sent	0
Pause Packets Received	0

- *Bytes Sent* the number of bytes transmitted;
- Bytes Received the number of bytes received;
- Packets Sent the number of packets transmitted;

- Packets Received the number of packets received;
- Unicast Packets Sent the number of transmitted unicast packets;
- Unicast Packets Received the number of received unicast packets;
- Multicast Packets Sent the number of transmitted multicast packets;
- Multicast Packets Received the number of received multicast packets;
- Broadcast Packets Sent the number of transmitted broadcast packets;
- Broadcast Packets Received the number of received broadcast packets;
- FEC Errors the number of errors corrected using the FEC (Forward Errorr Correction);
- HEC Errors the number of errors corrected using the HEC (Header Error Checksum);
- Packets Dropped;
- Pause Packets Sent the number of PAUSE packets transmitted to adjust the speed;
- Pause Packets Received the number of PAUSE packets received to adjust the speed.



APPENDIX A. POSSIBLE PROBLEMS AND OPTIONS FOR THEIR SOLUTION

Problem	Possible Cause	Solution
Entering the router's IP	The PC does not belong to	In the parameters of Internet connection on your
address (e.g. 192.168.1.1)	the IP subnetwork for	PC, set the address of the subnet 192.168.1.0/24.
does not provide access	connection to the Web	
to the web interface.	interface.	
	Defective cable.	Check the physical connection by checking LEDs (all
		LEDs should be on). If the LEDs are off, use another
		cable. If your computer is switched off, LEDs may
		also be off.
	Access denied by your	Disable firewall on your computer.
	firewall.	
Forgotten/incorrect		Reset the router to default settings using the F
password to the web		button on the rear panel of NTU-1C or Reset button
interface of the device.		for NTU-1. Unfortunately, all changes you made in
		settings will be lost.

TECHNICAL SUPPORT

For technical assistance in issues related to handling Eltex Ltd. equipment, please, address to Service Center of the company:

https://eltex-co.com/support/

You are welcome to visit Eltex official website to get the relevant technical documentation and software:

Official website: https://eltex-co.com/ Download center: https://eltex-co.com/support/downloads/