

CATALOG'20



Russian designer and manufacturer
of communication equipment



- **28 years of experience** in designing and manufacturing telecommunication equipment
- More than **750 employees**
- **14 software development laboratories**
- **2 industrial complexes** in Novosibirsk (Russia) and Almaty (Kazakhstan)
- **More than 100 partner companies** in Russia, CIS, Europe, Asia and the Middle East
- **More than 1500 client companies**

1

Development

- Hardware
- Software

2

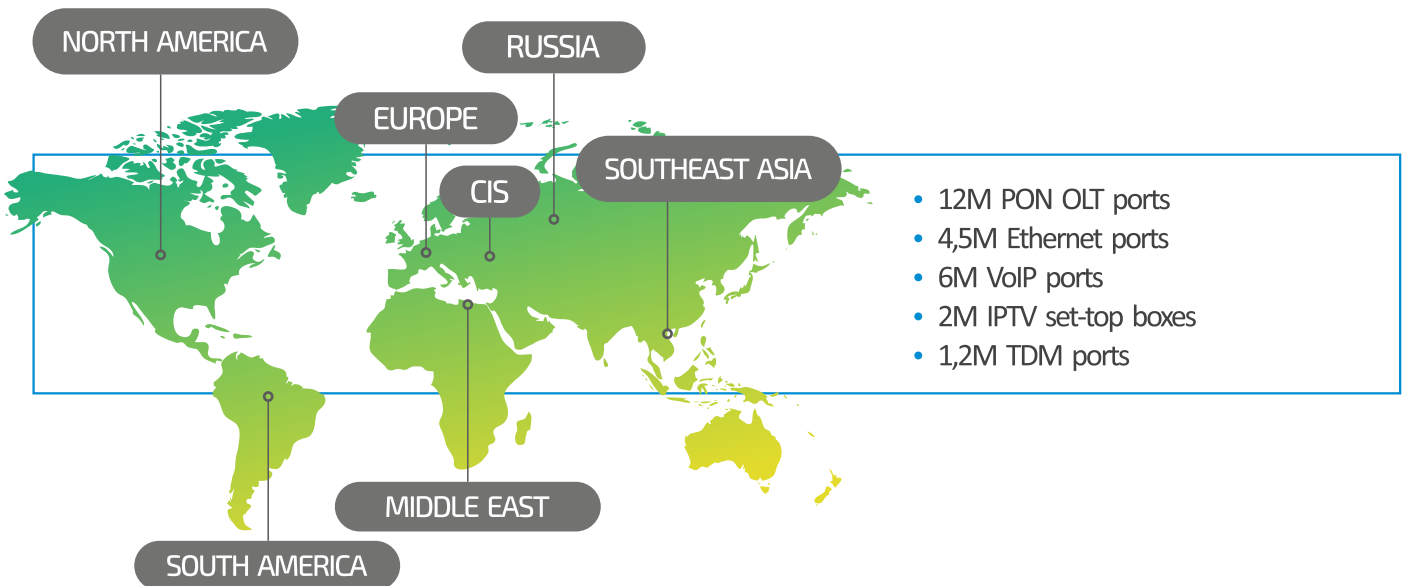
Manufacture





- Surface-mount technology
- Through-hole technology
- Assembling
- Software installation
- Testing of serial production equipment

3


Maintenance

- Technical support
- Service center
- Software updating
- Repair



	LTP-4X	LTP-8X	MA-4000PX	LTP-16N
Device image				 under development
Form factor	19", 1U Eurorack	19", 1U Eurorack	19", 9U Eurorack, modular	19", 1U Eurorack
Crate contents			up to 16 PLC8 modules up to 2 PP4X modules	
Chassis capacity	340 Gbps	680 Gbps	680 Gbps	1360 Gbps
Number of PON ports	4	8	128	16
Number of Uplink ports	<ul style="list-style-type: none"> 2 x 10GBase-X (SFP+)/1000Base-X (SFP) 4 combo 10/100/1000Base-T/1000Base-X (SFP) 	<ul style="list-style-type: none"> 2 x 10GBase-X (SFP+)/1000Base-X (SFP) 4 combo 10/100/1000Base-T/1000Base-X (SFP) 4 x 10/100/1000Base-T 	<ul style="list-style-type: none"> up to 8 x 10GBase-X (SFP+)/1000Base-T/1000Base-X (SFP) up to 4 combo 10/100/1000Base-T/1000Base-X (SFP) 	<ul style="list-style-type: none"> 8 x 10GBase-X (SFP+)/1000Base-X (SFP)
Maximum number of ONTs	512	1024	8192	2048

GPON SUBSCRIBER DEVICES (ONT)

	WAN	LAN	FXS	RF	Wi-Fi	USB
NTU-SFP-100	1xGPON					
NTU-1	1xGPON	1x1 Gbps				
NTU-1C	1xGPON	1x1 Gbps		1		
NTU-2VC	1xGPON	1x100 Mbps + 1x1 Gbps	1	1		
NTU-52V	1xGPON	1x100 Mbps + 1x1 Gbps	1			1xUSB 2.0
NTU-52VC	1xGPON	1x100 Mbps + 1x1 Gbps	1	1		1xUSB 2.0
NTU-RG-1421G-Wac	1xGPON	4x1 Gbps	1		IEEE 802.11ac, MIMO 3x3, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	2xUSB 2.0
NTU-RG-1421GC-Wac	1xGPON	4x1 Gbps	1	1	IEEE 802.11ac, MIMO 3x3, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	1xUSB 2.0
NTU-RG-5421G-Wac	1xGPON	4x1 Gbps	1		IEEE 802.11ac, MIMO 2x2, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	1xUSB 2.0
NTU-RG-1421G-WZ*	1xGPON	4x1 Gbps	1	1	IEEE 802.11ac, MIMO 3x3, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	2xUSB 2.0
<small>*embedded controller for "Smart home" solution</small>						
NTU-RG-5402G-W	1xGPON	4x1 Gbps	2		IEEE 802.11n, MIMO 2x2, 2.4GHz	1xUSB 2.0
NTU-RG-5421G-WZ*	1xGPON	4x1 Gbps	1		IEEE 802.11ac, MIMO 2x2, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	1xUSB 2.0
<small>*embedded controller for "Smart home" solution</small>						
NTU-RG-5440G-WZ	1xGPON	4x1 Gbps			IEEE 802.11ac, MIMO 4x4, 5GHz + IEEE 802.11n, MIMO 2x2, 2.4GHz	1xUSB 2.0
 under development						