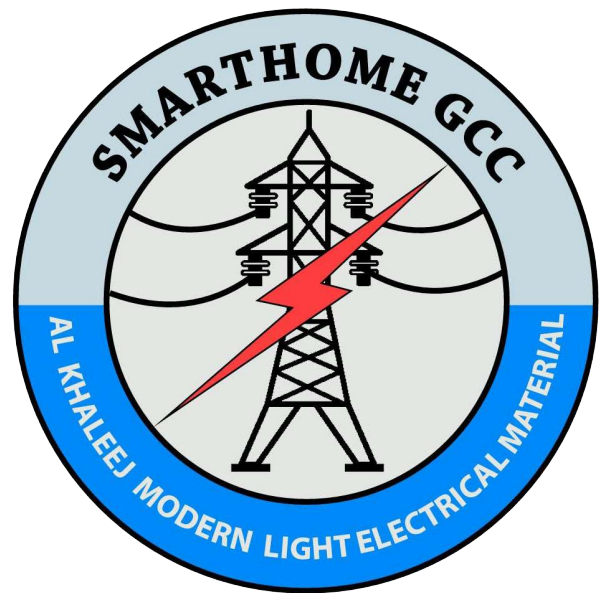


CATALOG'20



Russian designer and manufacturer
of communication equipment



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- **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

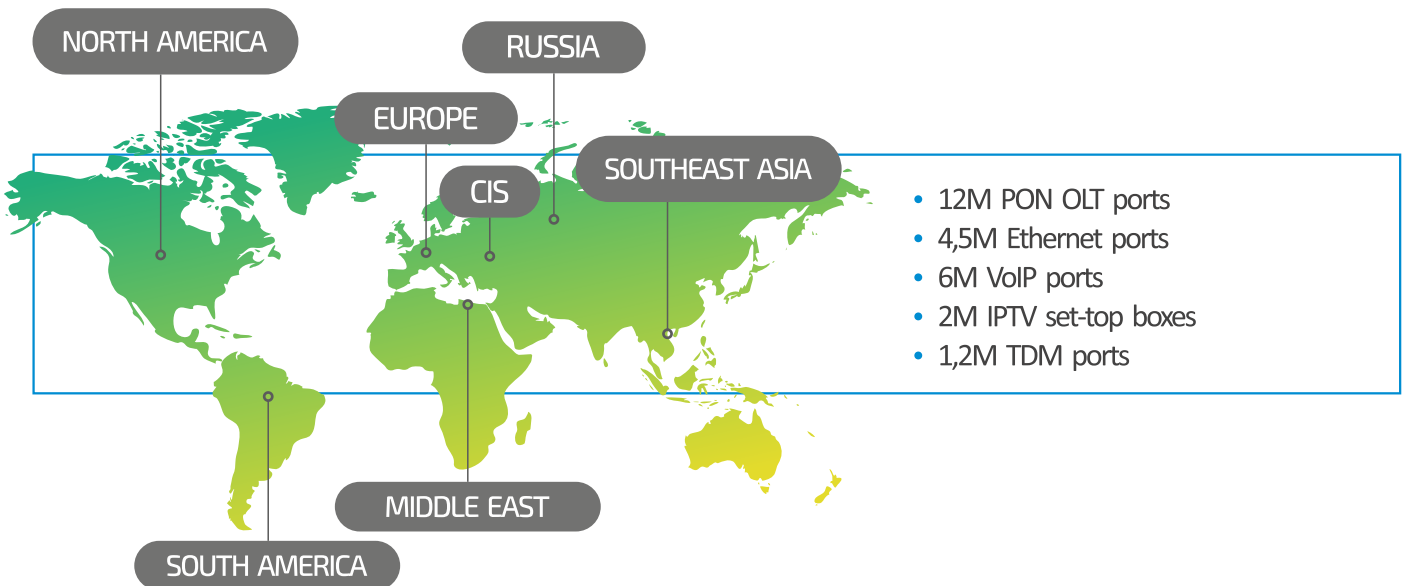
Manufacture

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

3

Maintenance

- Technical support
- Service center
- Software updating
- Repair



- 12M PON OLT ports
- 4,5M Ethernet ports
- 6M VoIP ports
- 2M IPTV set-top boxes
- 1,2M TDM ports









Wi-Fi

| Name | Under development | | Indoor | | | | |
|---------------------------------|---|---|---|--|---|---|---|
| | WEP-32ax | WEP-3ax | WEP-12ac | WEP-2ac | WEP-2ac Smart | WEP-2L | WEP-1L |
| Device image | | | | | | | |
| Wi-Fi chip | Broadcom 43694 | Broadcom BCM47622, BCM43570 | Broadcom BCM43460 | Broadcom BCM47452, BCM43217 | | Realtek RTL8197FS, RTL8812FR | |
| Roaming | Seamless roaming (802.11k/v/r) | | | | | | |
| Bandwidth | Simultaneous operation at 2.4 and 5 GHz | | | | | | |
| Wi-Fi standard | 802.11ax (Wi-Fi 6/Wi-Fi 6E) | 802.11ax (Wi-Fi 6/Wi-Fi 6E) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) |
| MIMO technology | 4x4:4 | 2x2:2 | 3x3:3 | 2x2:2 | 2x2:2 | 2x2:2 | 2x2:2 |
| Type and number of antennas | Built-in 4 pcs. - 2.4 GHz 4 pcs. - 5 GHz | Built-in 2 pcs. - 2.4 GHz and 5 GHz 2 pcs. - 5 GHz | Built-in 3 pcs - 2.4GHz 3 pcs - 5 GHz | Built-in 2 pcs. - 2.4 GHz 2 pcs. - 5 GHz | Built-in Omni Antenna - 2.4 GHz Built-in Smart Antenna - 5 GHz | Built-in 2 pcs - 2.4GHz and 5 GHz | Built-in 2 pcs - 2.4GHz and 5 GHz |
| Third radio interface | | 802.11ac (Wi-Fi 5) | | | | | |
| Operation modes | <ul style="list-style-type: none"> Managed by controller Standalone | | <ul style="list-style-type: none"> Managed by controller In cluster (controller is one of the points) Standalone | | | <ul style="list-style-type: none"> Managed by controller Standalone | |
| WIDS/WIPS | Under development | Under development | • | • | • | | |
| Airtune | Under development | Under development | • | • | • | | |
| Mesh | Under development | Under development | • | • | • | | |
| OTT | Under development | Under development | • | • | • | Under development | Under development |
| 802.11u support (Wi-Fi offload) | Under development | Under development | • | • | • | | |
| Coverage area | 150 m | | | | | | |



| Name | Outdoor | | |
|---------------------------------|--|---|---|
| | WOP-12ac | WOP-2ac | WOP-2L |
| Device image | | | |
| Wi-Fi chip | Broadcom BCM43460 | Broadcom BCM47452, BCM43217 | Realtek RTL8197FS, RTL8812FR |
| Roaming | Seamless roaming (802.11k/v/r) | | |
| Bandwidth | Simultaneous operation at 2.4 and 5 GHz | | |
| Wi-Fi standard | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) 802.11ac (Wi-Fi 5) |
| MIMO technology | 3x3:3 | 2x2:2 | 2x2:2 |
| Type and number of antennas | External: 3 pcs. - 2.4 GHz 3 pcs. - 5 GHz | External: 2 pcs. - 2.4 GHz 2 pcs. - 5 GHz | External: 2 pcs. - 2.4 and 5 GHz |
| Operation modes | <ul style="list-style-type: none"> Managed by controller Cluster (one of points is a controller) Standalone | | <ul style="list-style-type: none"> Managed by controller Standalone |
| WIDS/WIPS | • | • | |
| Airtune | • | • | |
| Mesh | • | • | |
| OTT | • | • | Under development |
| 802.11u support (Wi-Fi offload) | • | • | |
| Coverage area | 200 m | | |



WIRELESS BROADBAND ACCESS FOR SMALL COMMUNITIES

| Name | Base stations | | User stations | |
|----------------------------------|---|---|---|---|
| | WOP-2ac-LR5 | WOP-2ac-LR2 | WB-2P-LR5 | WB-2P-LR2 |
| Device image |  |  |  |  |
| Wi-Fi chip | Realtek RTL8197FS, RTL8812BRH | Realtek RTL8197FS | Realtek RTL8197FS, RTL8812BRH | Realtek RTL8197FS |
| Wi-Fi standard | 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) | 802.11ac (Wi-Fi 5) | 802.11n (Wi-Fi 4) |
| Frequency range | 5 180 - 6 150 MHz | 2402 —2482 MHZ | 5 180 - 6 150 MHz | 2402 —2482 MHZ |
| MIMO technology | 2x2:2 | 2x2:2 | 2x2:2 | 2x2:2 |
| Channel width | 5, 10, 20, 40, 80 | 5, 10, 20, 40, 80 | 5, 10, 20, 40, 80 | 5, 10, 20, 40, 80 |
| Centralized management | EMS management system | EMS management system | TR-069 | TR-069 |
| Polling support | • | • | • | • |
| Intersectoral synchronization | Under development | Under development | | |
| Type and number of antennas, pcs | External: 2 pcs — 5-6 GHz | External: 2 pcs — 5-6 GHz | Built-in: 1 pcs — 5-6 GHz | Built-in: 1 pcs — 5-6 GHz |
| Transmitter power, dBm | 28 | 26 | 28 | 26 |

2G/3G/4G terminal

| Name | WB-15-W | WB-15-W2 |
|-----------------------------|--|--|
| Device image |  |  |
| LTE support | 2G/3G/4G LTE | 2G/3G/4G LTE |
| Modem | Neoway N720 | Neoway N720 |
| Frequency range | 4G LTE FDD: B1, B3, B5, B7, B8, B20 4G LTE TDD: B40 3G UMTS: B1, B8 2G GSM/GPRS/EDGE: 850/900/1800/1900 MHz | 4G LTE FDD: B1, B3, B5, B7, B8, B20 4G LTE TDD: B40 3G UMTS: B1, B8 2G GSM/GPRS/EDGE: 850/900/1800/1900 MHz |
| Interfaces | 1 Ethernet 10/100 Base-T | 1 Ethernet 10/100 Base-T |
| Number of SIM cards, pcs | 2 (redundancy) | 2 (redundancy) |
| Type and number of antennas | External: 2 pcs. - LTE Built-in: 2 pcs. - 2.4 GHz | External: 2 pcs. - LTE Built-in: 2 pcs. - 2.4 GHz |
| Number of radio interfaces | 1 | 2 |
| Wi-Fi chip | Realtek RTL8197FS | Realtek RTL8197FS, RTL8192FR |
| Wi-Fi | 802.11n (Wi-Fi 4) | 802.11n (Wi-Fi 4) |
| Sniffer/Radar | | • |
| GPS | • | • |
| Power supply | Passive POE (24V), DC 9-36V | |
| Management | Under development | |