



Made for the Outdoors

Last Mile Ready Fixed Wireless Access
LTE Outdoor CBRS Router

The Horizon 2100F12 is a secured, highly advanced, LTE outdoor multi-service EUD, CAT B CPE-CBSD CPE-CBSD designed to meet the needs of residential, business, and enterprise users. Service providers can deliver high-speed broadband services to their customers over the last mile using the shared-spectrum of the CBRS over 4G technology.

Our device is FCC part 96 certified with an built-in SAS (Spectrum Access System) client to increase your service reach thanks to high-power signal transmissions and 4x4 MIMO high-gain directional antennas.

The rugged IP68 rated outdoor design enables it to work in rough weather and remote locations, can be installed in farms, manufacturing plants, stadiums, schools, hospitals, parks or anywhere requiring a robust wireless solution.

-  Supports LTE band 48 (CBRS)
-  IP68 hardened enclosure with industrial grade components
-  3GPP Release 12 with up to 560 Mbps /30Mbps (DL/UL)
-  High Temperature and Freeze resistant, protects from Rain, Sun, Snow, Frost and Flurry
-  High-power CPE-CBSD with built-in SAS client
-  15KV ESD & Surge Protection
-  Built-in 4x4 MIMO, high power dual- polarized and dual-slant directional antennas
-  Easy install, Pole/Wall Mounting Kit Included
-  Standard Gigabit PoE Injector Included
-  Remote Management supports TR-069, SNMP, FOTA, HTTP/Web GUI
-  Supports Bridge/Router Mode
-  SECURE NETWORK with advanced VPN features

Basic Information	LTE CAT12 LTE-TDD: B42/B43/B48 Downlink speeds up to 560Mbps // Uplink speeds up to 30Mbps Carrier Aggregation; up to 4 carriers downlink 4x4 MIMO 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz 256QAM DL / 64QAM UL Maximum Transmit Power 23±2dBm (Power class 3) Four (4) internal directional antennas with high gain Maximum Peak Gain: Up to 16dBi
Operational Modes	Route Mode Bridge Mode / Supports remote management under bridge mode NAT mode Static Route
Network Protocols and Features	NAT, static routing Vlan in Bridge mode DMZ DNS relay, NTP and DDNS IGMP proxy Supports DHCP server Support VPN (PPTP/L2TPv2/L2TPv3/GRE L2/GRE L3)/VPN Passthrough ICMP supported Port Mirror and Port Forwarding
Quality of Service Control	LTE QoS Support Supports the DiffServ approach
Firewall	Built-in NAT Firewall SPI (Based on Iptables) Support DDOS Access Control (Parental Controls) IP Address Filtering, URL Filtering, MAC Filtering Firewall can be enabled or disabled via GUI Web-based GUI for remote and local management Up to 3 level of access account Firmware upgrade and configuration data upload/download via web GUI FOTA Upgrade Local/Remote device management and firmware update via TR069 and web GUI IPv4 only, IPv6 only, IPv4/IPv6 Dual Stack
Management	SNMP and syslog Monitoring Multi-APN management PCI Lock/EARFCN Lock/Band Lock PIN/PUK management CLI/SSH (local and remote SSH access) Support UPNP Supports SSH with key access Supports bandwidth/quota management Supports mobile apps (iOS and Android) Supports remote throughput testing (TR-143) Gigabit LAN / PoE PD Interface
Hardware Specifications	1 x USIM/SIM (2FF - Mini Sim Card)
Physical Interface	4 LED Indicators, PWR, NET, SIM, SIG
Physical Specifications	Dimensions: 288mm x 288 mm x 82mm Weight: <2Kg IP Rating: IP68 Rated Enclosure Back Enclosure Material: SurTec Treated Die-Cast Alloy Enclosure Front Enclosure Material: PC 143R. Meets the standard of UL 746C
Operating Environment	-40°C to 60°C (-40°F to 140°F)
Certification	FCC Part 96 Authorized, FCC ID: 2ADX3-2100F12

Product Images



SurTec Treated Die-Cast Alloy Enclosure

What's in the Box?

- Horizon 2100F12 Router
- Quick Start Guide
- Power Adapter
- Gigabit PoE Injector
- Ethernet Cable
- Cable Gland
- Pole Mounting Kit

Remote distance locations broadband coverages

Grid stations / Farm houses

Manufacturing plant PLTE broadband connectivity

Stadium / Venues / Event location broadband access

Hospital / Clinics / Hotels

Parks

2100F12
CBRS Outdoor CPE

LTE CAT 12
with speeds up to 560Mbps Downlink and 30Mbps Uplink

CBRS
Support LTE band 48 (CBRS)

IP68 Rated

IP68 Hardened Enclosure
with industrial grade components

High Temperature & Freeze Resistant
protects from Rain, Sun, Snow, Frost and Flurry

Device Management Solution



Device Management Solution is available to offer a comprehensive, fully featured and robust solution to Carriers and CSPs to automate the deployment and support of data and voice services.

The software enables provisioning, management and support of modems, routers, hotspots and VoIP devices. The solution is based on a TR-069 standard and enables dramatic reduction of the provisioning costs and support for non-technical users.

Main Capabilities

- Remote management of devices
- Zero-Touch self-provisioning of new devices
- Support cost reduction tools
- Remote diagnostics and repair
- Self-healing and auto fix
- Preventive support calls features
- Mass update of groups of devices
- Remotely reboots and resets devices
- Firmware updates
- Device monitoring

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This product comes with a 1 year limited warranty that is valid only if purchased from a Horizon authorized reseller.

Actual data throughput and wireless coverage will vary and may be lowered by network and environmental conditions, including network traffic volume and building construction.



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