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RS-Series Outdoor Aggregation Switches

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RS-Series Outdoor Aggregation Switches

WISI's innovative RS-Series Outdoor Aggregation Switches are meticulously crafted to cater to the needs of network providers leveraging 1G/10G/25G and 100G interfaces for seamless interconnection and aggregation of devices within their network.
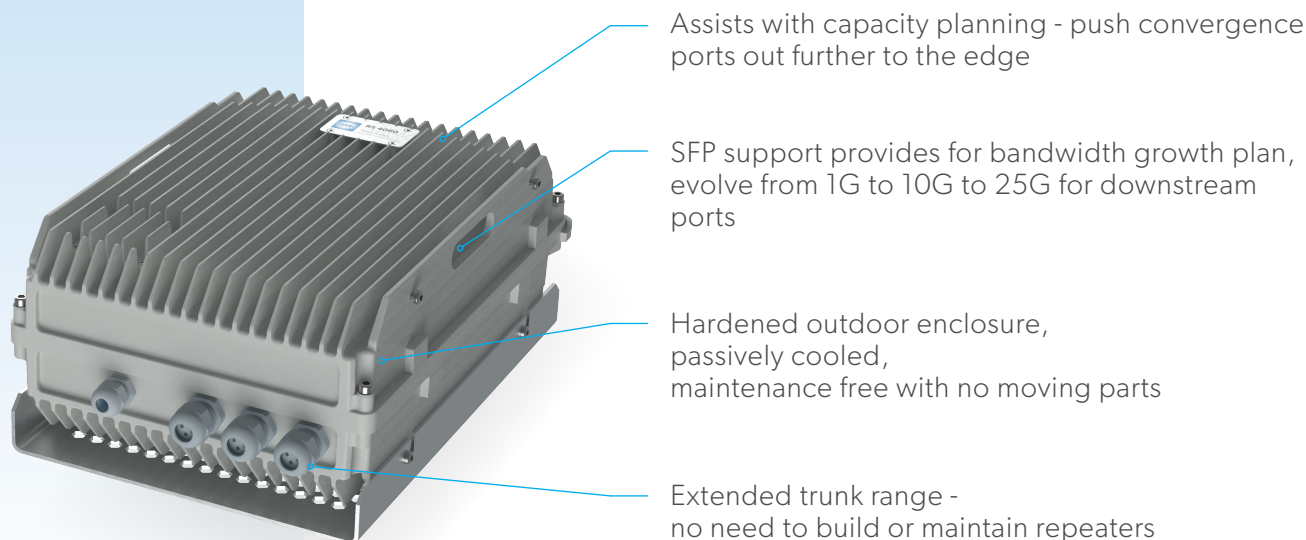
Applications

- ✓ Mobile xHaul
- ✓ Mobile Antenna (eCPRI) aggregation
- ✓ Outdoor Ethernet aggregation
- ✓ Remote-MAC/PHY node aggregation
- ✓ Business Ethernet aggregation
- ✓ Port based PON OLT conversion

Key Features
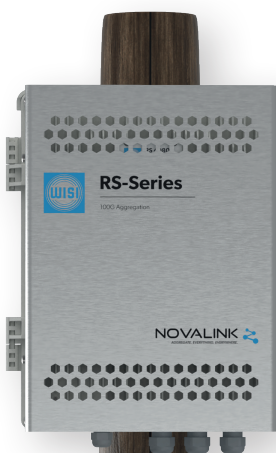
- ✓ Extend Fiber 6 SFP28 Ports **(RS4060)** or up to 8 Ports **(RS4080)** - Seamless single fiber extension
- ✓ Versatile Uplink Choices - Opt for non-redundant 100 Gbps or redundant multiple redundant 25G Links
- ✓ High Bitrate, Non-Blocking Aggregation - Achieve 300 Gbps switching capacity
- ✓ Optional MACSec* for Added Security - Enhance security with Layer 2 Encryption (MACSec)
- ✓ Transparent PTP **(RS 4060)**, Full timing support* (T-GM**, T-BC and T-TSC) **(RS 4080)**
- ✓ Optional XGS-PON Conversion - Transform SFP28 ports into XGS-PON OLT ports for expanded connectivity (pluggable OLT required)
- ✓ Integrated fiber management tray

Assists with capacity planning - push convergence ports out further to the edge

SFP support provides for bandwidth growth plan, evolve from 1G to 10G to 25G for downstream ports

Hardened outdoor enclosure, passively cooled, maintenance free with no moving parts

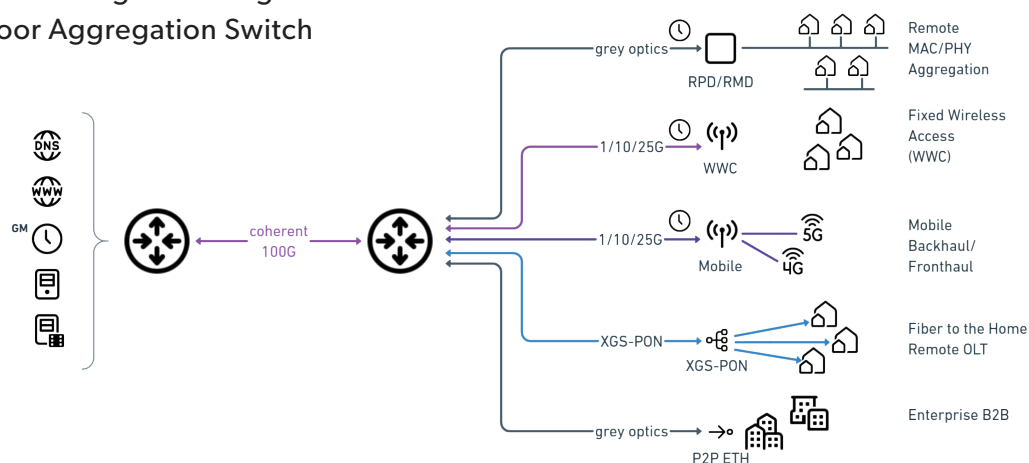Extended trunk range - no need to build or maintain repeaters

How it works

In the realm of distributed network architecture, facing limitations with conventional 19" rack units in outdoor settings and their lack of non-blocking aggregation, the RS-Series Outdoor Aggregation Switch emerges as a game-changer.

With just a single existing fiber connection, the switch seamlessly replaces a lone Remote-PHY node, utilizing a 100G link on fiber. It delivers significantly larger bandwidth over longer distances and also transforms the once-isolated location into a thriving aggregated facility. The RS-Series Outdoor Aggregation Switches accommodates additional R-PHY nodes, high-bitrate PON residential customers, and Point-to-Point Ethernet business customers—all seamlessly connected through the pre-existing trunk fiber.

The versatility of the Outdoor Aggregation Switch goes beyond the basics. Even the most straightforward aggregation tasks for operators or smaller entities become hassle-free, thanks to its robust IP rating. This ensures that the switch exceeds the demands of diverse network environments, providing a reliable solution for various applications. Elevate your network capabilities with WISI's cutting-edge Outdoor Aggregation Switch—where efficiency meets innovation.

Access Network Convergence using the RS-Series Outdoor Aggregation Switch

grey optics
RPD/RMD
Remote MAC/PHY Aggregation

1/10/25G
WWC
Fixed Wireless Access (WWC)

coherent 100G

GM

1/10/25G
Mobile
Mobile Backhaul/ Fronthaul
5G
4G

XGS-PON
XGS-PON
Fiber to the Home Remote OLT

grey optics
P2P ETH
Enterprise B2B

DNS
WWW

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TECHNICAL DATA

Interfaces

UNI & redundant NNI option	Type: SFP28 Quantity: 8 Ports **(RS 4080)** / 6 Ports **(RS 4060)** Speed: 1G/10G/25G
NNI	Type: QSFP-DD **(RS 4080)** / QSFP28 **(RS 4060)** Quantity: 1 port Speed: 100G
LMT Serial	Serial port used for local management
LMT Ethernet	Used for local and separated remote management Port: RJ45 Speed: 1000 Base-T Ethernet Usage: Out-of-Band management
USB Interface	Mass storage device support USB type: USB-A
Timing Support	Transparent PTP **(RS 4060)** Full timing support* (T-GM**, T-BC and T-TSC) **(RS 4080)**

General Data

Housing (WDH)	386 mm x 307 mm x 188 mm **(RS 4080)** 285 mm x 287 mm x 140 mm **(RS 4060)**
Supply Voltage	110…230 VAC, -48 VDC, 27…90 VAC *
Operating Temperature	-25° – +55°C
IP Rating	IP 68
Power Consumption	<65 W **(RS 4080)** <45 W **(RS 4060)**

*   product variant
**   sold separately

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