

R1 and R1P Series Broadband Access Platform



Series Overview

R1 and R1P series is CORECESS next generation broadband access platform that has compact form factor for Remote Office or MDU deployments. R1 and R1P is a series of fixed configurations pizza-box type products that share common product look-and-feel and expansion modules. R1 and R1P series products have form factor of 1 rack-unit (RU) height and 240mm depth to be easily installed into various circumstances such as in-door rack, street cabinet or CEV. All R1 and R1P series products are rack mountable into 19inch rack and provide full front access for installation, configuration and management. Provided with commercial temperature range of 0 °C to 50 °C in the initial release, temperature hardened version with extended temperature range of -40 °C to 65 °C will be provided in the future release.

R1 and R1P series products provide leading edge broadband access technologies such as ADSL2+, VDSL2, EFM-based 6-band VDSL and Fast Ethernet with one expansion slot for uplink connection. Advanced layer two packet processing technology implemented on the top of full IP packet-based architecture brings functional excellences such as QoS and multicast into R1 and R1P series products that make them to be the perfect solution for “triple play” service offerings. The various high speed uplink options that include gigabit Ethernet over both fiber and UTP, and gigabit EPON gives flexibility in network design and enables “triple play” service coverage to be extended beyond the one of current broadband.

R1 and R1P have the same architecture and features except hot swapping capability for uplink. The uplink module of R1 is pre-assembled in factory and is not replaced or upgraded on the fly, while R1P has built-in uplink ports and additional hot swappable uplink slot.

R1 and R1P series is primarily stand alone product that works alone in a small scale deployment, but it supports cascading of any technology, any product of the same series to economically and efficiently cover mid-scale deployment of more than 100 subscribers. Copper gigabit Ethernet uplink can be used for on site cascading, while fiber Ethernet is for cascading or subtending to remotely located sites. R1 and R1P series also works with S5 and R5 platform to give more option for service scalability.

R1 and R1P series products can be managed from anywhere in the network through in-band management channel within the backhaul network. Also provided is out-band management through serial console interface. R1 and R1P series supports SNMP, RMON, Telnet and CLI. ViewlinX™, -CORECESS Elementary Management System (EMS)-provides management for all CORECESS products. CORECESS also provides mediation layer for interfacing with customer’s existing Operations Support System (OSS) and Network Management System (NMS). Also available is one IP management feature that requires single IP interface for multiple cascaded R1 or R1P products. TFTP and FTP is also provided in R1 and R1P series to make remote upgrade of system software.

Key Features

Platform for deployment everywhere within network (Not applied for part of series products. Contact for availability)

- Compact form factor of 1RU height and 240mm depth
- Full front access for installation, configuration & management
- Temperature hardened version in plan

Same look-and-feel for the same series products

Standards-based high speed broadband access platform

- ADSL2+, VDSL2, 6 bands EFM VDSL, Fast Ethernet

Robust QoS and IGMP snooping support for efficient multicast video and voice over broadband delivery

Wide choice of uplink options for various network environment

- Gigabit Ethernet or Gigabit EPON for fiber backhaul network

Redundant gigabit Ethernet uplink (Not provided in part of series products. Contact for availability)

Scalable role out configurations from 24 port box to mid-capacity stacking through Gigabit Copper connection

Remote upgrade, provisioning and management capabilities through TFTP, FTP, CLI, SNMP, RMON, Telnet or ViewlinX™, EMS

Product Line-up

R1 series has separate products for ADSL, VDSL2, and Fast Ethernet, while R1P series provides EFM-based VDSL and Fast Ethernet. R1 series has one expansion slot for uplink where various technologies such as fast Ethernet, gigabit Ethernet and gigabit EPON for copper and fiber media are supported. R1 uplink module is pre-assembled in factory and does not support replacement of uplink module during operation. R1P series has built-in uplink of one fiber and one copper based gigabit Ethernet and additional expansion slot of one. Multiple uplink options combined with advanced flow-based classification in R1P enables service separation by traffic class and subscriber classification and different uplink connection based on classification rules. R1P uplink module supports hot swapping that makes replacement and upgrade on the fly.

Following picture summarizes R1 and R1P series products.

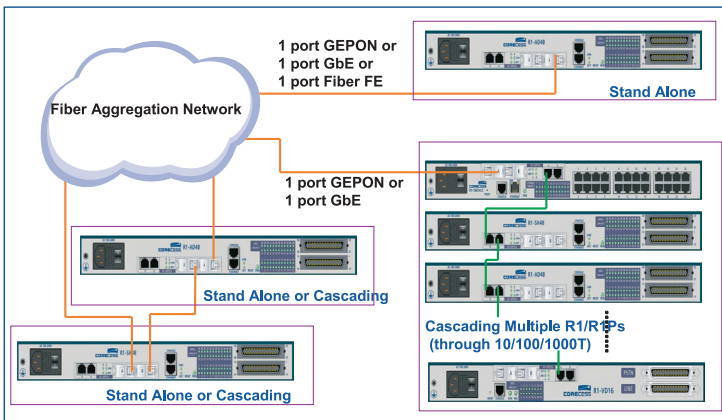
48 port	R1-AD48A (AnnexA, without splitter) R1-AD48B (AnnexB, without splitter)	R1-Series Uplink: OPT-N - OPT-N2CS/OPT-N1ES1CS R1P-Series Uplink: OPT-P - OPT-P2CS/OPT-P1EX1CS	R1-SW24L2B (24port RJ45, Layer 2)
24 port	R1-AD24A (AnnexA, splitter) R1-AD24B (AnnexB, splitter)	R1P-VD24 (24port, splitter)	R1-VDT24 (24port ATM VDSL2, splitter)
16 port		R1P-VD16 (16port, splitter) R1P-VD16J (16port, Japanese splitter)	R1-Series Common: - 1 AC power, LED (System, Port) - 1 Expansion slot, Serial console port R1P-Series Common (Except R1P-SWML3M) - 1 AC power, LED (System, Port) - 2 built-in GbE uplink port (1 SFP/1 RJ45) - 1 Expansion slot (pluggable), Serial console port - 1 Out-band Ethernet management port for R1P-SW24(F)L3M product R1P-SWML3M - Dual Ac or DC power, LED (System, Port) - 2 built-in GbE uplink port (1 SFP/1 RJ45) - 1 Expansion slot (pluggable), Serial console port - 1 Out-band Ethernet management port
8 port	R1P-VD8 (8port, splitter) R1P-VD8J (8port, Japanese splitter)		
	ADSL/ADSL2/ ADSL2+	VDSL2 (PTM)	VDSL2 (ATM) Fast Ethernet

Note for Line-up

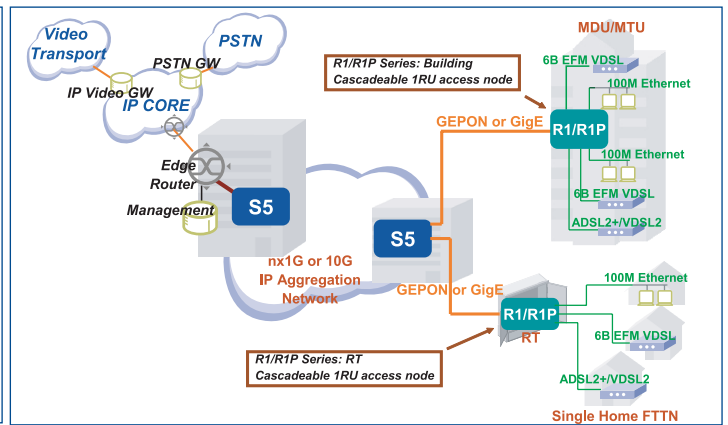
1. All products shown in table operate in commercial temperature range. Temperature hardened products for extended temperature range will be added later.
2. Product line-up diagram includes some products in plan. Contact CORECESS for availabilities for respective products.

Details for the products and expansion modules will be provided in data sheets for respective products.

Key Applications



Flexible Network Deployment : Stand-alone, Cascading or Ring with fiber backhaul support



Typical R1 and R1P deployment : Remote Terminal (RT) or MDU

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