



specifications

RF Path: Units/Modules Specifications (continued)

Optical Interface Unit (OIU)

OIU will host the following modules:


1. PSM-I; power supply module, up to four PSM-I modules can be installed.
2. EDGE Module – MTP® Connector to LC APC splitter. Up to two Pretium EDGE® Modules can be installed.

Chassis Interfaces	Power Input: 110-240 V AC, 50-60 Hz power Output: Eight DC ports – 57V DC, Maximum 60V (UL limit)	
Edge Module Interfaces	One MTP® SM fiber port to Six LC APC SM	
Physical Characteristics (Chassis)	Mounting: Rack-mount – 19 in and 4U Dimensions : 17 x 15 x 19.2 in (430.5 x 379.8 x 488 mm) Weight: lbs (kg): 5.5 lbs (2.5 kg) – without PSM	

Remote Antenna Unit (RAU)

RAU will host the following modules:

1. RxU; Remote expansion module, for additional LTE and AWS MIMO service. One module per RAU.
2. GEM; Gigabit Ethernet module – upgrade module for the RAU. One module per GEM.

Supported Services	SISO: CELL, PCS, AWS, 700 LTE MIMO: AWS/700 LTE (with Expansion Module – RxU)	
Supported Services	Two LC APC SM fiber connectors; UL and DL Two DC power input ports; main and secondary in case of PoE clients Two QMA RF Ports; for external cavity filter (in/out) use LTE and CELL filters One Broadband external antenna QMA connector One RJ-45 MGMT (local) connection RxU module interface – power, digital and RF GEM module interface – power and digital	
Antenna	Omnidirectional; 0 dBi (15° down from horizon)	
Management	Managed via the HCM	
Physical Characteristics (Chassis)	Mounting: Wall/ceiling (horizontal mount) Mounting bracket included in the installation kit Dimensions : 13.1 x 13.1 x 4 in (including mounting bracket) (H x W x D) (332.7 x 332.7 x 101.6 mm)	

specifications | (continued)

RF Path: Units/Modules Specifications

Remote Antenna Unit (RAU) (continued)

Physical Characteristics (Chassis and Modules)	Weight:	RAU only: 7.93 lbs (3.6 kg) RAU and RXU and GEM: 12.12 lbs (5.5 kg)
	Ambient Temperature:	Wall-mount installations: 45°C (113°F) Ceiling-mount installations: 50°C (122°F)

Remote Expansion Unit (RxU)

Services	Upgrade module supporting two services AWS MIMO and LTE 700 MIMO
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Interfaces	Three pins for integration with RAU (power, control and RF)
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Management	Management via host RAU
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Physical Characteristics	Mounting:	Installed in RAU enclosure
	Dimensions : (H x W x D)	1.09 x 12.8 x 9.8 in (27.7 x 327.5 x 250 mm)
	Weight:	3.08 lbs (1.4 kg)

Digital Path: Unit/Modules Specifications

Centralized Ethernet Unit (CEU)

CEU will host the following module:

1. CEM; centralized ethernet module; media converter, Ethernet (copper) to fiber.

Services	Centralized media converter unit – Ethernet over fiber Hosts three media converter modules (CEMs)
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Interfaces CEM (Centralized Ethernet Module)	CEM supports four 10/100/1000BASE-T RJ-45 connectors to four LC UPC fiber connectors
	Four 10/100/1000BASE-T copper ports
	Four 1000BASE-X fiber
	One USB serial port – service port



Power	Input: 110-240 VAC, 50-60 Hz
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Physical Characteristics	Mounting:	Rack-mount 19-in; 1U
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ordering information | (continued)

HEU Chassis and Modules

Part Number	Description
HEU	Headend Unit Assembly, support for 1-12 Radio Interface Modules (w/o RIMs)
PSM-HO	Headend/Optical Interface Unit Power Supply; Includes US plug power cords
HCM	Headend Control Module; includes two RJ-45 cables (2 m)
FAM-HO	Headend/Optical Interface Unit Fan Module; one module including four fans
RIX	Radio Interface Expander – HEU expansion module; two must be ordered
RIM-L70	Radio Interface Module for HEU chassis, LTE 700 MHz service
RIM-C85	Radio Interface Module for HEU chassis, CELL 850 MHz service
RIM-P19	Radio Interface Module for HEU chassis, PCS 1900 MHz service
RIM-A17	Radio Interface Module for HEU chassis, AWS 17000 MHz service
RIM-L70-M	Radio Interface Module for HEU chassis, LTE 700 MHz MIMO service
RIM-A17-M	Radio Interface Module for HEU chassis, AWS 1700 MHz MIMO service

OIU Chassis and Modules

Part Number	Description
OIU	Optical Interface Unit Assembly, Support for 1-12 Optical Interface Modules (without OIMs)
OIM	Optical Interface Module for OIU Chassis; three optical links
PSM-HO	Headend/Optical Interface Unit Power Supply; includes US plug power cords
ACM	Auxiliary Control Module; Includes two RJ-45 cables (2 m)
FAM-HO	Headend/Optical Interface Unit Fan Module; one module including four fans
OIX	Optical Interface Expander – OIU expansion module; two must be ordered

OIU Chassis and Modules

Part Number	Description
RAU-C85P19L70A17	CELL 850, PCS 1900, LTE 700 and AWS 1700 Remote Antenna Unit Quadservice CELL, PCS, 700 MHz LTE and AWS; SMF
RAU-G-C85P19L70A17-E	Remote Antenna Unit with assembled GEM module; support for CELL/PCS/700 MHz LTE and AWS; support for Ethernet services
RXU-L70A17-M	700 LTE/AWS MIMO Services Remote Expansion Unit for 700 MHz LTE and AWS MIMO support; SMF
RAU-R-C85P19L70A17-M	Remote Antenna Unit with assembled RxU
RAU-R-G-C85P19L70A17-M-E	Remote Antenna Unit with assembled RxU and GEM modules
ICU-1U	Intermediate Centralized Unit; hosts four PSM-I modules. US power cord included.
PSM-I	ICU Power Supply