

CORNING

Corning Everon™ 6000
DAS Solutions
Specification Sheet

Corning Optical
Communications
www.corning.com

Features and benefits |

Comprehensive service Support	600 MHz, 700 MHz, FirstNet, 800/850 MHz, 1900 (PCS), EAWS, 2.3 GHz (WCS), 2.5 GHz (TDD). Support of SISO and MIMO services, FDD and TDD formats. Supports 3G, 4G, 5G technologies
Multi-X system	Supports multi-operator, multi-band, multi-technology services over a single infrastructure. Supports single and multi-building ("campus") network architectures
Highly modular/ Highly scalable	Can be easily expanded to support additional capacity: sectors, frequency bands, channels and coverage areas via extending the number of remotes
Advanced Digital Signal Processing	Provides higher dynamic range, enables per channel granularity, delivers enhanced overall power efficiency and improves overall system performance
Digital CPRI based Transport	Provides robust signal distribution. Ready for future direct interfaces interoperability with digital based capacity sources (e.g. BBUs/DUs)
Digital Service and capacity routing	Enables advanced capacity and coverage management through flexible routing configuration management
Carrier-grade network management	Network configuration and management capabilities enable on-site as well as remote end-to-end configuration, system diagnostics, maintenance, support management and control by operators NOC

Corning Everon 6000 DAS is an advanced in-building cellular service solution for small, medium and large size venues, supporting a broad range of cellular generations: 3G, 4G and 5G.

Corning Everon 6000 DAS is based on digital distribution architecture, advanced digital processing, and channelized implementation, enabling efficient utilization of digital links.

The solution is designed to support multi-band, multi-technology and multi-operator networks over a single fibre-based infrastructure.

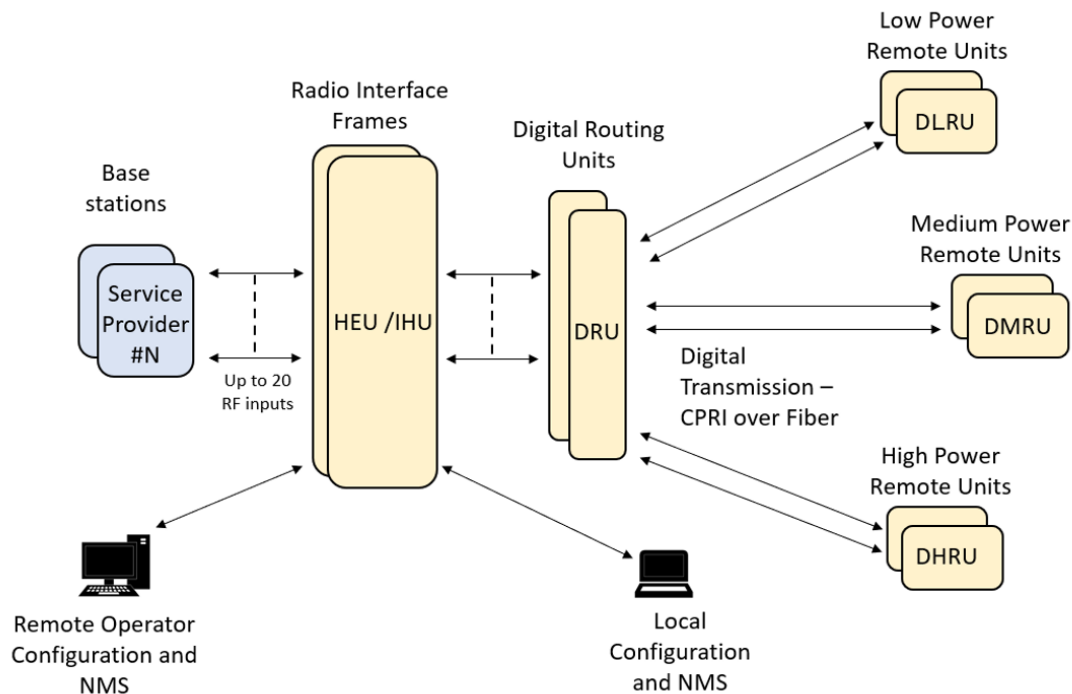
Corning Everon 6000 high bandwidth distribution architecture provides preparedness for future radio technologies, broader spectrum, and new frequency bands.

Due to its modular design and configuration flexibility, Corning Everon 6000 is highly scalable in terms of supported capacity (number of sectors, frequency bands, channels) and remote units (coverage), and can be easily configured to support a large variety of deployment scenarios including single and multi-building ("Campus") network topologies.

Corning Everon 6000 offers multiple types of digital remote units, supporting a variety of frequency band combinations, SISO/MIMO configurations, with different power levels ranging from 20 dBm per band to 43 dBm per band.

Advanced network configuration and management capabilities enable on-site as well as remote end-to-end configuration, system diagnostics, maintenance and support operators NOC connectivity.

System architecture -Everon 6000 |



Radio Interface Frames (Point of Interface)

Radio Interface frames are modular chassis used for interface between the base stations and the Everon 6000. A system may be comprised of two types of Chassis: IHU (Integrated Head-end Unit) and HEU (Head End Unit). The IHU can interface up to 8 RF duplexed ports (or 16 UL/DL simplex ports) and can be expanded by an HEU radio interface frame which provides interface capabilities for additional 12 RF duplexed ports (or 24 UL/DL simplex ports). The following modules are used with the radio interface frames:

- RIMe (Radio Interface Module Enhanced) - provides an interface and signal conditioning to signals coupled between the signal source RF antenna ports and the Everon 6000 (uplink and downlink)
- DCM (Digital Conversion Module) - Provides RF to CPRI (Downlink) and CPRI to RF (Uplink) conversion, where the well-known CPRI (Common Public Radio Interface) standard is used for representing the RF signals. Each DCM may convert signals capturing up to 190 MHz aggregated bandwidth.
- RIX (Radio Interface Expander) – combines downlink signals of the HEU and IHU RIMe’s and provides the combined signals to the OIX, splits uplink signals arriving from the OIX to the HEU and IHU RIMe’s.
- OIX (Optical Interface Expander) – combines downlink signals arriving from the HEU RIX and the IHU RIX and splits the uplink signal for the HEU RIX and the IHU RIX uplink ports.
- PSM (Power Supply Module) – provides power to the radio interface frame
- dHCM (Digital Head-End Control Module) is a “master” frame controller
- ACM (Auxiliary Control Module) is a “slave” frame controller controlled by the dHCM

DRU – Digital Routing Unit

The DRU - Digital Routing Unit is the Everon 6000 central Hub and Distribution element. The DRU interfaces between the DCM modules and the IHU Radio Interface Frames, allowing to receive the operators service signals in CPRI format, and to route these signals to the remote antenna units. The DRU supports all Corning digital remote antenna units' flavours, for all services, power levels and antenna configurations (SISO or MIMO). Each DRU includes 4 SFP+ ports connected to the DCMs and 32 SFP+ ports for connection to the remote units. When more remote antenna units are needed, the system scales up easily by adding additional system modules.

LRU - Low power Remote Unit

The LRU is a low power remote antenna unit with 20 dBm per MIMO stream per band output RF power and native support of 2x2 MIMO antenna scheme. Two types of LRU are available:

Low band LRU - supports 600 MHz (band 71), 700 MHz Low (band 12), 700 MHz High (band 13), FirstNet (band 14), 800/850 MHz (band 26) bands via one SFP+ connection.

Medium Band LRU - supports EAWS (band 66), PCS (band 25), WCS (band 30) and 2.5GHz TDD (band 41) services via 3 SFP+ connections.

The LRU cooling is natural convection with no fans. Due to its IP66 enclosure design the LRU can also be installed outdoors.

MRU – Medium-power Remote Unit

The MRU is a medium power modular remote antenna unit with a single antenna port. The output power for the lower bands: 600/700 MHz Low/700 MHz High/FirstNet, 800/850 MHz is 33 dBm and the output power for the medium bands EAWS, PCS, WCS and 2.5GHz TDD is 37dBm.

Two SFP+ connections are used to support all the bands. The MRU modular structure and integrated high-performance cavity based multiplexing functionalities, enable setups of up to 6 RF modules, for a variety of licensed frequency bands within a single cabinet.

The MRU also provides CBRS/C-Band ready RF interface for future field upgrades.

HRU – High-power Remote Unit

The HRU is a high power modular remote antenna unit which provides 43 dBm output RF power per service module, and native support of 2x2 MIMO antenna scheme. The HRU modular structure enables set ups of up to 8 service modules in 600/700 MHz Low/700 MHz High/FirstNet, 800/850 MHz, EAWS, PCS, WCS and 2.5GHz TDD.

The HRU cooling is based on natural convection, with no fans. Due to its IP65 enclosure design the HRU can also be installed outdoors.

Specifications |

RF Parameters

Frequency Range Name	Uplink	Downlink
600-band 71	663-698 MHz	617-652 MHz
700L (Lower Band)- band 12	698-716 MHz	728-746 MHz
700U (Upper Band)-band 13	776-787 MHz	746-757 MHz
FirstNet (700)-band 14	788-798 MHz	758-768 MHz
800/850 -band 26	817-849 MHz	862-894 MHz
1900 (PCS)-band 25	1850-1915 MHz	1930-1995 MHz
EAWS-band 66	1710-1780 MHz	2110-2200 MHz
WCS -band 30	2305-2315 MHz	2350-2360 MHz
2500 -band 41	2496-2690 MHz (TDD)	

Standards and Certifications

Attribute	Description
EMC	CE, EMC FCC 47 CFR Part 15 sub part B
Safety	62368
Radio	Fire Safety UL 2043 (applicable for LRU only)

*Technical spec subject to change without notice

Radio Interface Frames (IHU/HEU)

IHU Chassis



Radio Interface Frame Modules	
RIMe – up to 8 modules per chassis	Single band module (see bands table) Interfaces: UL, DL and duplexed interface ports, QMA RF connectors Weight: 1.9 lbs (0.9 kg)
DCM – up to 2 modules per chassis	Interfaces: CPRI: 4x SFP+ (optical connectors) Weight: 2.9 lbs (1.3 kg)
RIX- one module per chassis	Interfaces: Two 9-pin coaxial interface connectors (RF and Clock) Two QMA ports for reference clock connections between Radio Interface Frames (IHU, HEU) Weight: 1.54 lbs (0.7 kg)
OIX - one module per chassis	Interfaces: Two 9-pin coaxial interface connectors (RF and Clock) Weight: 1.54 lbs (0.7 kg)
PSM – up to 2 modules per chassis	Power Consumption 200 Watt (Full Chassis) AC PSM: power input 120-220 VAC; tri-pin DC PSM: power input 48 VDC; 9A Max.; 6-pin terminal block connector On/Off power switch Weight: 1.9 lbs (0.9 kg)
dHCM – one module per system using IHU and 7 HEU chassis	Interfaces: Four RJ45 100 Mb Ethernet ports - internal interfaces to auxiliary control modules One RJ45 1 Gigabit Ethernet LAN port – for remote management One RJ45 1 Gigabit Ethernet Local port – for local configuration and management One RJ45 console port – for service personnel use only (e.g., debugging, etc.) SD card slot – support for micro SD card up to 32 GB, used for saving and importing system configuration files Status LEDs: indicating power, module operation (RUN), system status and fan operation of chassis Weight: 2.2 lbs (1 kg)
ACM -one module per chassis	Interfaces: Four RJ45 100 Mb Ethernet ports - internal interfaces to dHCM One RJ45 console port – for service personnel only Status LEDs: indicating power, module operation (RUN), system status and fan operation of chassis To dHCM RJ-45 internal port Weight: 2.2 lbs (1 kg)

Mechanical	
Dimension (H x W x D)	7" x 17.3" x 18.95" (177.8 x 440 x 481.7 mm)
Mounting	19"/4U
Weight	58 Lbs (26.4Kg) for full chassis configuration

Environmental	
Operating temperature	0 to +50° C (32 to 122° F)

*Technical spec subject to change without notice

HEU Chassis



Radio Interface Frame Modules	
RIMe – up to 12 modules per chassis	Single band module (see bands table) Interfaces: UL, DL and duplexed interface ports, QMA RF connectors Weight: 1.9 lbs (0.9 kg)
RIX- one module per chassis	Interfaces: Two 9-pin coaxial interface connectors (RF and Clock) Two QMA ports for reference clock connections between Radio Interface Frames (IHU, HEU) Weight: 1.54 lbs (0.7 kg)
PSM – up to 2 modules per chassis	Power Consumption 200 Watt (Full Chassis) AC PSM: power input 120-220 VAC; tri-pin DC PSM: power input 48 VDC; 9A Max.; 6-pin terminal block connector On/Off power switch Weight: 1.9 lbs (0.9 kg)
ACM -one module per chassis	Interfaces: Four RJ45 100 Mb Ethernet ports - internal interfaces to dHCM One RJ45 console port – for service personnel only Status LEDs: indicating power, module operation (RUN), system status and fan operation of chassis To dHCM RJ-45 internal port Weight: 2.2 lbs (1 kg)

Mechanical	
Dimension (H x W x D)	7" x 17.3" x 18.95" (177.8 x 440 x 481.7 mm)
Mounting	19"/4U
Weight	64.5 Lbs (29.3) for full chassis configuration

Environmental	
Operating temperature	0 to +50° C (32 to 122° F)

*Technical spec subject to change without notice

DRU - Digital Routing Unit



Interfaces & Mechanical	
CPRI ports	32 x SFP+ (10.1 Gbps, CPRI line bit rate option 8) to Remote Units
CPRI ports	4 x SFP+ (10.1 Gbps, CPRI line bit rate option 8) to DCM
Ethernet Ports	2x RJ45 - LAN, Local
External synchronization	2*QMA -10MHz In/Out
Mounting:	19" rack, 1U
Dimension (W x H x D)	Size: 19" x 1.75" x 16.5" (482.6 x 44.5x 419 mm)
Weight	19.8 Lbs (9Kg)
Powering	
Powering	48V DC / or AC 220/110V
Power Consumption	180 Watt
Environmental	
Operating temperature	0 to +50° C (32 to 122° F)

*Technical spec subject to change without notice

Low Band LRU-Low power Remote Unit

P/N: dLRU-678

End to End System Performance

Headend to Digital Low power Remote Unit



RF Specifications						
Frequency Range Name			600	700L & 700U & FirstNet		800/850
Frequency Range	Uplink	MHz	663-698	698-716	776-798	817-849
	Downlink		617-652	728-746	746-768	862-894
Max. Operating Bandwidth-Non-contiguous		MHz	Full Band			
Instantaneous Bandwidth		MHz	35	18	21	32
Downlink Output Power (LRU)		dBm	20	20		20
Attenuation Adjustable Range (1dB step)		dB	0-20			
Pass Band Ripple (p-p)		dB	≤ 4	≤ 4	≤ 4	≤ 4
Channel Bandwidth		MHz	5/10/15/20			
Uplink Noise Figure (typical)		dB	12			
Uplink IIP3 (typical)		dBm	-14			
VSWR			≤ 1.8			
EVM (256 QAM) (TM3.1A @ Rated power)		%	< 3.5			
Spurious Emission			3GPP TS 36.106/25.106; 3GPP TS 38.104 V15.5.0 (sections 6; 7)			
Electrical Specifications						
Power Consumption		Watt	70			
DC voltage		DC	36-57			
Interfaces and Mechanical						
CPRI Port			1, SFP+ 10.1Gbps			
Antenna Ports			2, 4.3-10 female			
Dimension (W x H x D)		Inch (mm)	9.84 x 10.63 x 2.75 (250 x 270 x70)			
Weight		Lbs (Kg)	13 (6)			
Mounting and installation			Wall, ceiling and pole mount options			
Cooling			Convection			
Environmental						
Operational Temperature		°F (°C)	-40° to 131° (-40° to 55°)			
Outdoor installation (Ingress Protection)			IP 66			

*Technical spec subject to change without notice

Medium Band LRU- Low power Remote Unit

P/N: dLRU-17192325

End to End System Performance

Headend to Digital Low power Remote Unit

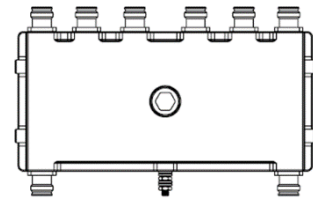


RF						
Frequency Range Name			1900	EAWS	WCS	2500
Frequency Range	Uplink	MHz	1850-1915	1710-1780	2305-2315	2496-2690
	Downlink		1930-1995	2110-2180	2350-2360	2496-2690
Max. Operating Bandwidth-Non-contiguous		MHz	Full Band			
Instantaneous Bandwidth		MHz	65	70	10	60 + 60
Downlink Output Power (LRU)		dBm	20	20	18	20
ATT Adjustable Range (1dB step)		dB	0-20			
Pass Band Ripple (p-p)		dB	≤ 4	≤ 4	≤ 4	≤ 4
Channel Bandwidth		MHz	5/10/15/20			5/10/15/20 for 4G 40 or 60 for 5G
Uplink Noise Figure (typical)		dB	12			
Uplink IIP3 (typical)		dBm	-14			
VSWR			≤ 1.8			
EVM (256 QAM)		%	< 3.5			
Spurious Emission			3GPP TS 36.106/25.106; 3GPP TS 38.104 V15.5.0 (sections 6; 7); 3GPP TR 36.846 V12.0.0			
Electrical Specifications						
Power Consumption		Watt	80			
DC voltage		DC	36-57			
Interfaces and Mechanical						
CPRI Port			3, SFP+ 10.1Gbps			
Antenna Ports			2 ,4.3-10 female			
Dimension (W x H x D)		Inch (mm)	9.84 x 10.63 x 2.75 (250 x 270 x 70)			
Weight		Lbs (Kg)	13 (6)			
Mounting and installation			Wall, ceiling and pole mount options			
Cooling			Convection			
Environmental						
Operational Temperature		°F (°C)	-40° to 131° (-40° to 55°)			
Outdoor installation (Ingress Protection)			IP 66			

*Technical spec subject to change without notice

LRU 2:2 MIMO Antenna Combiner

The LRU combiner is used to combine the 2 LRU's:
Low Band LRU and Medium Band LRU.
The combiner has a total of 6 input ports and 2 output ports.
There are two independent three-frequency combiners inside.
The input frequencies are:
617-894MHz (connected to LRU Low Band)
1695-2690 MHz (connected to LRU Medium Band)
3450-4000MHz (for future connection to CBR5 C-Band LRU)



		Port1/Port4	Port2/Port5	Port3/Port6
Port Name		Low Band 1/2	Mid Band 1/2	C-Band 1/2
Frequency Range	MHz	617-894	1695-2690	3450-4000
Bandwidth	MHz	277	995	550
Insertion Loss	dB	≤ 1		
Pass band Ripple	dB	≤ 0.5		
Out of Band Isolation	dB	≥50@1695-2690 ≥50@3450-4000	≥50@617-894 ≥40@3450-4000	≥50@617-894 ≥50@1695-2690
PIM	dBc	-155 (@ 2x1W)		
Return Loss	dB	≥18		
Isolation	dB	≥40		
Impedance	Ω	50		
Interfaces and Mechanical				
Port Type		4.3-10 Female		
Dimension	Inch(mm)	10.6 x 4.92 x 1.38 (270 x 125 x 35)		
Maximum Power		1W (Average)		
Environmental				
Operating temperature	°F (°C)	-40 to +185 (-40 to +85)		
Ingress Protection		IP66		

*Technical spec subject to change without notice

MRU - Medium Power Remote Unit

System performance

Head End to Medium power Remote Unit



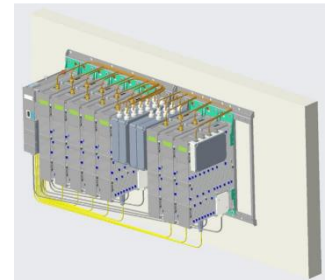
RF											
Frequency Range Name			600	700L & 700U & FirstNet		800 /850	1900	EAWS	WCS	2500	
Frequency Range	Uplink	MHz	663-698	698-716	777-798	817-849	1850-1915	1710-1780	2305-2315	2496-2690	
	Downlink		617-652	728-746	746-768	862-894	1930-1995	2110-2180	2350-2360		
Max. Operating Bandwidth-Non-contiguous	MHz		Full Band								
Instantaneous Bandwidth	MHz		35	18	21	32	65	70	10	60+60	
Downlink Output Power	dBm		33	33		33	37	37	37	37	
Attenuator Adjustable Range (1dB step)	dB		0-20								
Pass Band Ripple (p-p)	dB		≤ 4								
Channel Bandwidth	MHz		5/10/15/20							5/10/15/20 for 4G 40 or 60 for 5G	
Uplink Noise Figure (typical)	dB		12								
Uplink IIP3 (typical)	dB		-12								
VSWR			≤ 1.8								
EVM (256 QAM) (TM3.1A@ Rated power)	%		< 3.5								
Spurious Emission			3GPP TS 36.106/25.106; 3GPP TS 38.104 V15.5.0 (sections 6; 7)								
CBRS ready frequencies	MHz		3350-3980. Combined with all other services								
Coupling port	dB		35								
Electrical Specifications											
Power Consumption (Typical)	Watt		With DC power supply: 515 With AC power supply: 550								
DC voltage	DC		48								

Interfaces and Mechanical		
CPRI Port		2, SFP+ 10.1Gbps
Antenna Ports		1, 4.3-10 female
CBRS port		1, N-Type female
Coupling port		1 ,QMA connector that will enable measurement of the DL/UL signals while the system is working
Dimension (W x H x D)	Inch (mm)	17.45 x 10.5 x 15.75 (443.2 x 266.7 x 400)
Mounting and installation		19",6U -Wall mount and Rack mount options
Weight	Lbs (Kg)	83.77(38) -Fully populated with 6 RF modules
Cooling		Active
Environmental		
Operational Temperature	°F (°C)	-40° to 131° (-40° to 55°)
Indoor installation		For outdoor applications external enclosure is required

*Technical spec subject to change without notice

HRU -High-Power Remote Unit

System performance (Head End to High power Remote Unit)



RF										
Frequency Range Name			600	700L & 700U & FirstNet		800 /850	1900	EAWS	WCS	2500
Frequency Range	Uplink	MHz	663-698	698-716	776-798	817-849	1850-1915	1710-1780	2305-2315	2496-2690
	Downlink		617-652	728-746	746-768	862-894	1930-1995	2110-2180	2350-2360	
Max. Operating Bandwidth-Non-contiguous	MHz		Full Band							
Instantaneous Bandwidth	MHz		35	18	21	32	65	70	10	100
Downlink Output Power	dBm		43	43		43	43	43	43	43
Attenuator Adjustable Range (1dB step)	dB		0-20							
Pass Band Ripple (p-p)	dB		≤ 4							
Channel Bandwidth	MHz		5/10/15/20							5/10/15/20 for 4G 40 or 60 for 5G
Uplink Noise Figure (typical)	dB		6							
Uplink IIP3 (typical)	dB		-20							
VSWR			≤ 1.8							
EVM (256 QAM) (TM3.1A@ Rated power)	%		< 3.5							
Spurious Emission			3GPP TS 36.106/25.106; 3GPP TS 38.104 V15.5.0 (sections 6; 7)							
Electrical Specifications										
Power Consumption (Typical)	Watt		OEU (Optical Expansion Unit) –connected to RFU’s					50		
			RFU (RF Unit) – MIMO 2:2 for the bands 600,700,800/850,1700.1900,2300,2500TDD					220		
AC voltage	AC		100-240							

Interfaces and Mechanical			
CPRI Port		4, SFP+ 10.1Gbps	
Antenna Ports		1 ,4.3-10 female	
Dimension (W x H x D)	Inch (mm)	OEU	14.6 x 3.2 x 13.8 (370 x 80 x 355)
		RFU accept 700	19.7 x 3.2 x 13.8 (500 x80 x355)
		RFU 700	19.7 x4.8 x 13.8 (500 x121 x355)
Mounting and installation		Wall mount	
Weight	Lbs (Kg)	OEU	26.4 (12)
		RFU accept 700	39.6 (18)
		RFU 700	44 (20)
Cooling		Convection	
Environmental			
Operational Temperature	°F (°C)	-40° to 131° (-40° to 55°)	
Outdoor installation (Ingress Protection)		IP 65	

*Technical spec subject to change without notice

Low Bands Combiner specifications					
The Low band combiner is designed to combine the following services :600MHz,700MHz, 800/850MHz and high frequencies from the Medium Band combiner					
Frequency Name		600	700	800/850	High Freq
Port Name		Port 1	Port 2	Port 3	Port 4
Frequency Range	MHz	617-716	728-798	817-894	1695-2690
Insertion Loss	dB	≤0.3			
Port Isolation	dB	≥50			
Return Loss	dB	≤20			
Pass band ripple	dB	≤0.2			
PIM	dBc	≤155@2×43dBm			
Power Capacity	Watt	250 per port			
Interface					
Connector		4.3-10 Mini DIN-Female			

*Technical spec subject to change without notice

Medium Bands Combiner specifications

The medium band combiner is designed to combine the following services: 1900, EAWS, WCS and 2.5GHz.

If a single module is required a single input (2500) is used.

If 2 * 2.5GHz RF modules are used (to support 4G and 5G services) 2 inputs are required (2500 IN1 and 2500 IN2) .

Frequency Name		1900	EAWS	WCS	2500	2500 IN1	2500 IN 2	2500 OUT
Port Name		Port 1	Port 2	Port 3	Port 4	Port 5	Port 6	Port7
Frequency Range		MHz	1850-2020	1695-1780 2110-2200	2305-2360	2496-2690		
Insertion Loss	dB	≤ 0.3				≤3.3		
Port Isolation	dB	≥50				≥20, 2500 IN1 to 2500 IN2 ≥50 to Other ports		
Return Loss	dB	≤20						
Pass band ripple	dB	≤ 0.2						
PIM	dBc	≤155@2×43dBm						
Power Capacity	Watt	250 per port						
Interface								
Connector		4.3-10 Mini DIN-Female						

*Technical spec subject to change without notice

Installation |

See QUIS (Quick Installation) for details.

Ordering information |

Headend Unit Assemblies and RF Modules

HEU Assemblies

Part Number	Description
HEU:	Head End Unit Assembly (without RIMe); provided with ERFC, one PSM and one RIX (supports up to 12 RIMe's)
HEU-1-00-1-A-A	Hosts one RIX module; one ETM. one PSM-AC and one ACM
HEU-1-00-1-D-A	Hosts one RIX module; one ETM. one PSM-DC and one ACM
HEU-1-00-2-A-A	Hosts one RIX module; one ETM , 2 PSM-AC and one ACM
HEU-1-00-2-D-A	Hosts one RIX module; one ETM, 2 PSM-DC and one ACM

RF Modules

Part Number	Description
RIMe-25T	2500 MHz TDD
RIMe-W23	WCS 2300 MHz
RIMe-L70	LTE 700 MHz
RIMe-E80	CELL/ESMR 800 MHz
RIMe-A17	AWS 1700 MHz
RIMe-P19	PCS 1900 MHz
RIMe-FN70	FirstNet® 700 MHz
RIMe-L60	TMO 600 MHz

Integrated Headend Unit Assemblies

Note: IHUs support both RIMe and OIMs (ordering information detailed in HEU and OIU ordering information).

Part Number	Description
IHU:	Integrated Headend Unit Assembly (without RIMe and DCM's); provided with ERFC cable, one RIX and one OIX. Supports up to eight RIMe and two DCM's
IHU-2-11-1-A-dH	Hosts one RIX; one OIX; one ERFC cable; one PSM-AC module and one dHCM module
IHU-2-11-2-A-dH	Hosts one RIX; one OIX; one ERFC cable; two PSM-AC modules and one dHCM module
IHU-2-11-1-D-dH	Hosts one RIX; one OIX; one ERFC cable; one PSM-DC module and one dHCM module
IHU-2-11-2-D-dH	Hosts one RIX; one OIX; one ERFC cable; two PSM-DC modules and one dHCM module

Control Modules

Part Number	Description
dHCM	Digital Headed Control Module; Includes two RJ45 cables (2 m)
ACM	Auxiliary Control Module; Includes two RJ45 cables (2 m)
DCM -4-S	Digital Conversion Module 4 CPRI ports, SISO (SFP+ not included)

Power Supply Modules

Part Number	Description
PSM-AC	AC Power Supply – installed in HEU, OIUc, and IHU chassis; includes U.S. plug power cords
PSM-DC	DC Power Supply - installed in HEU, OIUc, and IHU chassis; includes 48 V DC six-pin terminal block connector

DRU Part Numbers

Part Number	Description
DRU-1A-32C-4C-AD	Digital Routing Unit, 32 CPRI Ports of Distribution, 4 CPRI ports for uplink, AC and DC Power(SFP+, not included)

LRU Part Numbers

Part Number	Description
Stand Alone Modules	
dLRU-678	LRU module, supporting low bands in MIMO configuration: 600, 700 and 800/850
dLRU-17192325	LRU module, supporting mid bands in MIMO configuration: PCS, AWS, WCS and TDD 2500 MHz
dLRU-COMB	LRU combiner for low, mid band including CBRS/C-Band, including jumper cables, termination loads and combiner plate
dLRU-CABLE	Jumper cable between the LRU and the combiner
dLRU-TL	Termination load for LRU combiner
Assemblies	
dLRU-67817192325	LRU set including: LRU low band, LRU mid band, mounting brackets, combiner plate, jumper cables, termination load, combiner
Wall Mount bracket	
BR-dLRU	LRU bracket for wall or ceiling mount installation

MRU Part Numbers

Part Number	Description
Stand Alone Modules	
dMRU-ASM-DC	MRU Chassis Assembly with: dOPTM ,FAM, Mid-Plane, Cavity Filter, DC power supply
dMRU-ASM-AC	MRU Chassis Assembly with: dOPTM ,FAM, Mid-Plane, Cavity Filter, AC power supply
dMRU-CHS-ASM	MRU Chassis Assembly with: dOPTM ,FAM, Mid-Plane, Cavity Filter
dMRU-PSM-AC	MRU Power Supply Module AC feeding
dMRU-PSM-DC	MRU Power Supply Module DC feeding
dMRU-DPAM-67	MRU- Digital Power Amplifier Module supporting 600,700 Lower,700 Upper and Firstnet
dMRU-DPAM-8	MRU- Digital Power Amplifier Module supporting 800/850
dMRU-DPAM-17	MRU- Digital Power Amplifier Module supporting AWS 1700MHz
dMRU-DPAM-19	MRU- Digital Power Amplifier Module supporting PCS 1900MHz
dMRU-DPAM-23	MRU- Digital Power Amplifier Module supporting WCS 2300MHz
dMRU-DPAM-25-TDD	MRU- Digital Power Amplifier Module supporting TDD 2500MHz
Assemblies	
dMRU-671719-AC	MRU-AC Assembly w/ DPAM: 600/700,AWS, PCS
dMRU-671719-DC	MRU-DC Assembly w/ DPAM: 600/700,AWS, PCS
dMRU-671923-AC	MRU-AC Assembly w/ DPAM: 600/700, PCS, WCS
dMRU-671923-DC	MRU-DC Assembly w/ DPAM: 600/700, PCS, WCS
dMRU-6781719-AC	MRU-AC Assembly w/ DPAM: 600/700,800/850, PCS , AWS
dMRU-6781719-DC	MRU-DC Assembly w/ DPAM: 600/700,800/850, PCS , AWS
dMRU-678171923-AC	MRU-AC Assembly w/ DPAM: 600/700,800/850, PCS, AWS , WCS
dMRU-678171923-DC	MRU-DC Assembly w/ DPAM: 600/700,800/850, PCS, AWS , WCS
dMRU-67817192325-AC	MRU-AC Assembly w/ DPAM: 600/700,800/850, AWS, PCS, WCS , TDD 2500
dMRU-67817192325-DC	MRU-DC Assembly w/ DPAM: 600/700,800/850, AWS, PCS, WCS , TDD 2500
dMRU-67819-AC	MRU-AC Assembly w/ DPAM: 600/700,800/850, PCS
dMRU-67819-DC	MRU-DC Assembly w/ DPAM: 600/700,800/850, PCS
dMRU-6781923-AC	MRU-AC Assembly w/ DPAM: 600/700,800/850, PCS, WCS
dMRU-6781923-DC	MRU-DC Assembly w/ DPAM: 600/700,800/850, PCS, WCS
Wall Mount Bracket	
BR-dMRU-W	MRU Wall Mounting Bracket

General Information

MRU-DC/AC includes: OPTM, FAM, Mid-Plane and Cavity Filter
Shipping Box will include:
AC power Cord-3m (in case of AC)
Wall mount BR is not included, should be ordered separately.

HRU Part Numbers

Part Number	Description
Stand Alone Modules	
dHRU-dHPOM	HRU Digital High Power Optical Module
dHRU-dHPAM-6	HRU Digital High Power Amplifier Module supporting 600
dHRU-dHPAM-7	HRU Digital High Power Amplifier Module supporting 700
dHRU-dHPAM-85	HRU Digital High Power Amplifier Module supporting 800/850
dHRU-dHPAM-19	HRU Digital High Power Amplifier Module supporting PCS
dHRU-dHPAM-17	HRU Digital High Power Amplifier Module supporting AWS
dHRU-dHPAM-23	HRU Digital High Power Amplifier Module supporting WCS
dHRU-dHPAM-25	HRU Digital High Power Amplifier Module supporting TDD 2500, 100MHz contiguous BW
dHRU-COMB-L	HRU combiner module supporting low bands 600,700,800/850 including cables
dHRU-COMB-M	HRU combiner module supporting low bands AWS,PCS,WCS and TDD 2500 including cables
dHRU-TL	HRU termination load
BR-dHRU-L	HRU bracket to support low band modules
BR-dHRU-M	HRU bracket to support mid band modules
dHRU-CABLE	HRU 4.3-10 RF Jumper Cable
dHRU-INT-SFP	HRU Internal SFPs (from dHRU-dHPOM to modules) and Fiber
Assemblies	
dHRU-6781719232525-AC	HRU assembly supporting low and mid bands in a MIMO configuration: 600, 700, 800/850, PCS, AWS, WCS, TDD 2500
dHRU-678-AC	HRU assembly supporting low bands in a MIMO configuration: 600, 700, 800/850
dHRU-781719-AC	HRU assembly supporting low and mid bands in a MIMO configuration: 700, 800/850, PCS, AWS
dHRU-1719232525-AC	HRU assembly supporting mid bands in a MIMO configuration: PCS, AWS, WCS, TDD 2500

SFP+ Part Numbers

Part Number	Description
SFP-10G-10K-BiDi-1270	SFP+ 10.1Gb/s ,10Km, Bi Directional TX 1270nm, for DCM and DRU output connected to Remote Units
SFP-10G-10K-BiDi-1330	SFP+ 10.1Gb/s ,10Km, Bi Directional TX 1330nm, for Remote Units and DRU input connected to DCM
SFP-10G-10K	SFP+ 10.1Gb/s ,10Km, dual fiber
SFP-10G-1.4K	SFP+ 10.1Gb/s ,1.4Km, dual fiber

Notes |

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