Содержание

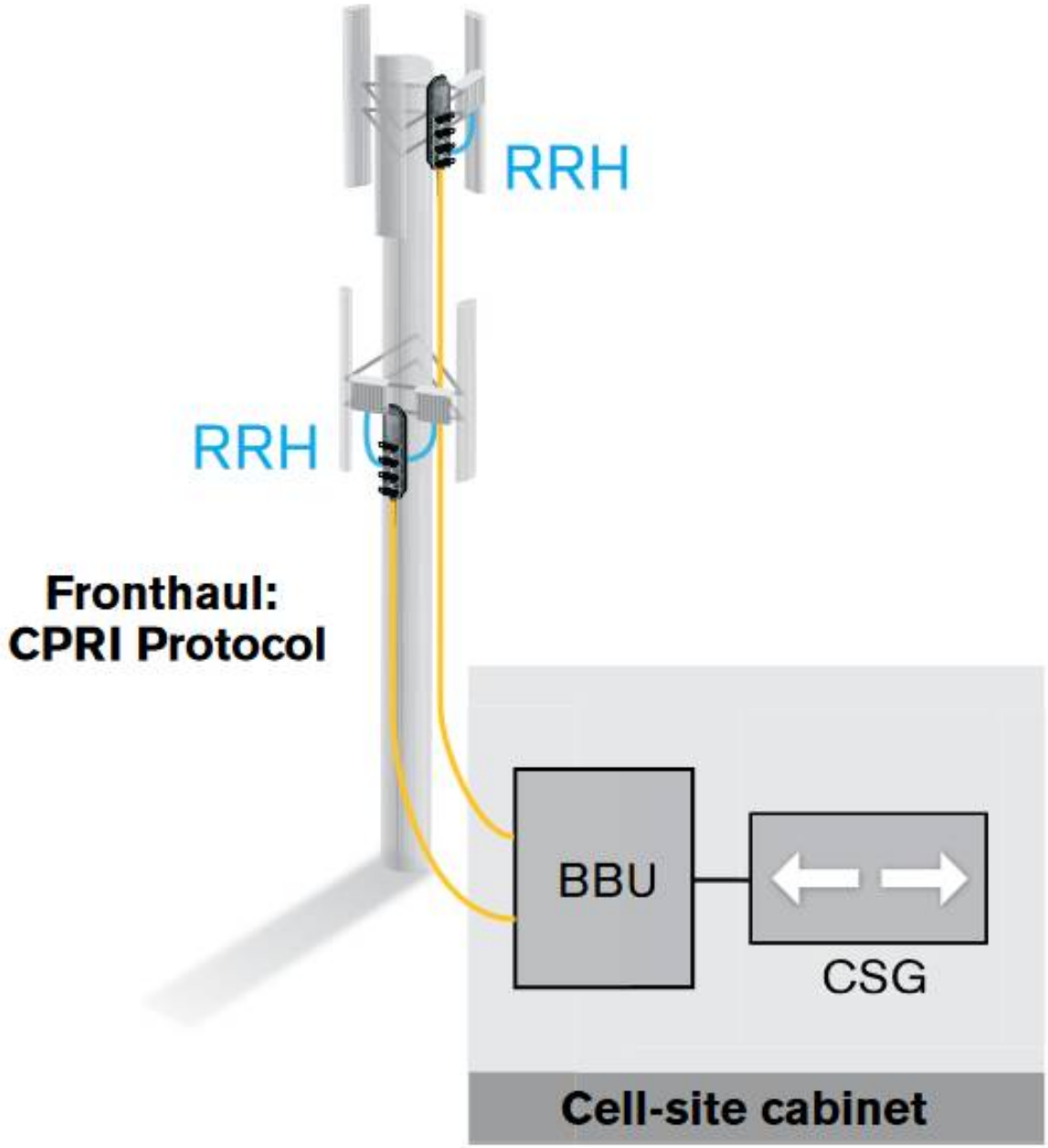
eCPRI 3

eCPRI

eCPRI - evolved Common Public Radio Interface - Интерфейс связи между радиопередающим блоком RRU и блоком управления BBU

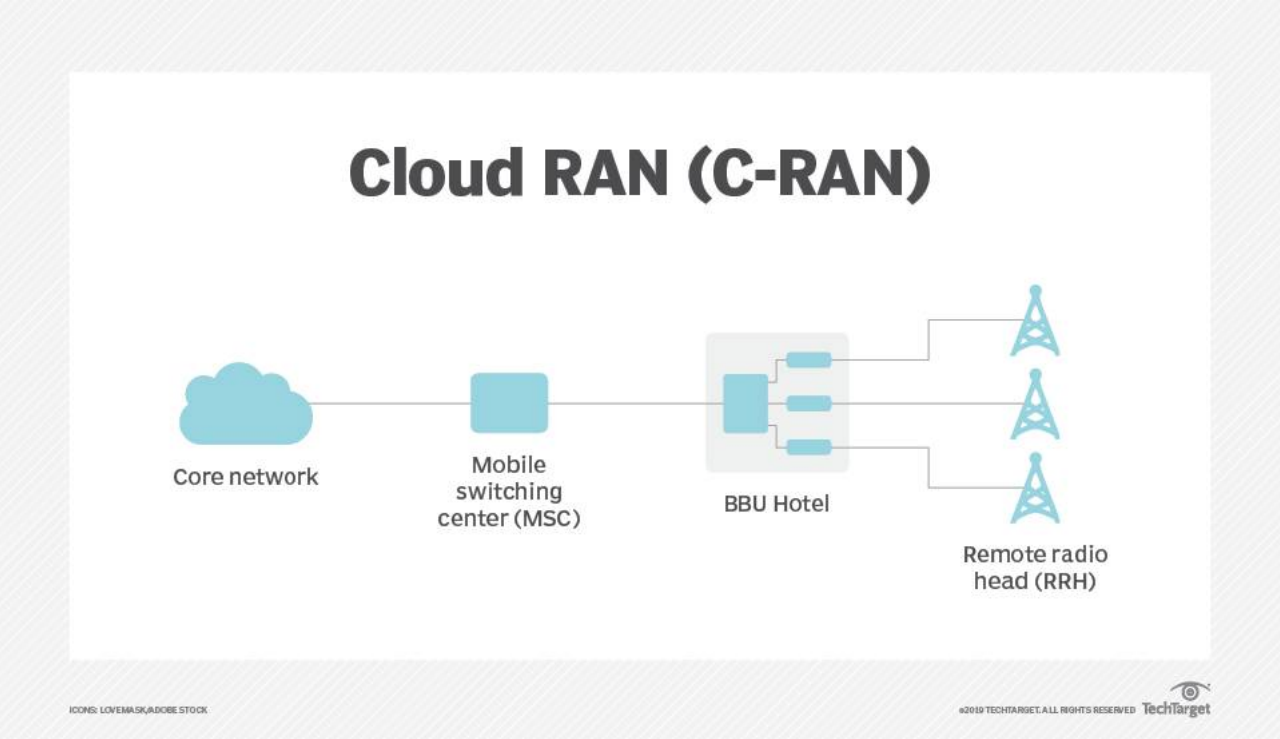
CPRI\eCPRI SFP	CPRI QSFP	Gowin IP core support	Gowin IP ref	Xilinx IP core support	Xilinx IP refs	
0.6144						8B10B
1.2288		+	61.44			8B10B
2.4576		+	122.88			8B10B
3.072		+	153.6	+	122.88, 153.6	8B10B
4.9152		+	122.88			8B10B
6.144		+	153.6	+	122.88, 153.6, 245.76, 307.2	8B10B
9.8304		+	122.88	+	245.76, 307.2	8B10B
8.11008						64B66B
10.1376	4×10.1376			+	245.76, 307.2	64B66B
12.16512				+	245.76, 307.2, 368.64	64B66B
24.33024	4×24.33024					64B66B
10.3125						
25.78125						

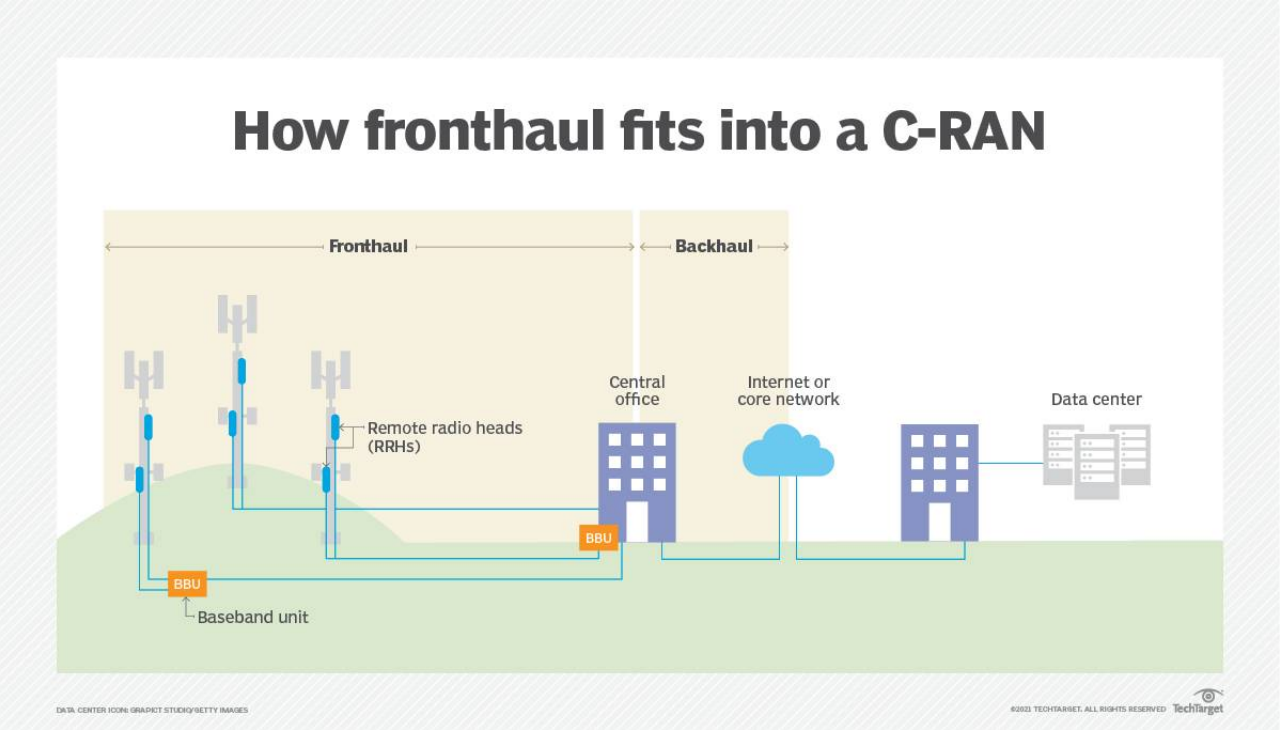
- CPRI Specification V7.0 (gowin, xilinx)
- Layer 1 and Layer 2
- high-speed serial signal transmission between:
  - Radio Equipment Control (REC)
  - Remote Radio Equipment (RE)



https://itechinfo.ru/content/ecpri_interface

A 2.5 Gbps CPRI link has the capacity to carry the equivalent of 40 MHz air bandwidth LTE IQ data which for instance can be used to carry a 2 time MIMO on a 20 MHz bandwidth.





eCPRI Specification V1.2 (2018-06-25)) протокола eCPRI (evolved CPRI)

В отличие от CPRI, спецификация eCPRI поддерживает большую гибкость в реализации функционального разделения ресурсов базовой станции на блоки.

Стоит отметить, что спецификации интерфейса eCPRI и CPRI обратно не совместимы.

Page	Abbreviation	Description	Tags

aisg	AISG	Antenna Interface Standards Group	cellular
du	DU	Digital Units	cellular
ru	RU	Radio Units	cellular
tnl	TNL	Transport Network Layer	cellular, qos
rf	RF	Resource Fair	cellular, qos
rc	RC	Radio and Core	cellular, qos
rbr	RBR	Radio Bearer Realization	cellular, qos
qci	QCI	QoS Class Identifier	cellular, qos
qos	QoS	Quality of Service	cellular, qos
pf	PF	Proportional Fair	cellular, qos
pelr	PELR	Packet Error Loss Rate	cellular, qos
tdd	TDD	Time Division Duplex)	cellular
fdd	FDD	Frequency Division Duplex	cellular
ue	UE	User Equipment	cellular
epc	EPC	Evolved Packet Core	cellular
eps	EPS	Evolved Packet System	cellular
p-gw	P-GW	Packet Data gateway	cellular, lte
s-gw	S-GW	Serving gateway	cellular, lte
sae-gw	SAE-GW	SAE gateway	cellular, lte
sc-fdma	SC-FDMA	Single Carrier Frequency Domain Multiple Acces	cellular, lte
ofdma	OFDMA	orthogonal Frequency Division Multiple Access	cellular, lte
ofdm	OFDM	Orthogonal Frequency-division Multiplexing	cellular, lte
ps	PS	Packet Switched	cellular, lte
sae	SAE	System Architecture Evolution	cellular
hom	HOM	Higher Order Modulation	cellular
eul	EUL	Enhanced Uplink (HSUPA)	cellular
hspa	HSPA	High Speed Packet Access	cellular
dl	DL	downlink	cellular
ul	UL	uplink	cellular
hsupa	HSUPA	High Speed Uplink Packet Access	cellular
hsdpa	HSDPA	High Speed Downlink Packet Access	cellular
x2	X2	interface between the eNodeBs	cellular
s1	S1	interface Between the EPC and E-UTRAN	cellular
cqi	CQI	Channel Quality Indicator - индикатор качества канала	cellular
mme	MME	Mobility Management Entity - система управления мобильными устройствами	cellular
rnc	RNC	Radio Network Controller	cellular
ran	RAN	Radio Access Network	cellular
lte	LTE	Long Term Evolution	cellular, lte
eac	EAC	External Alarm Control	cellular
dscp	DSCP	Differentiated Services Code Point	cellular, qos
oss	OSS	Operation Support System wiki	cellular
plte	pLTE	выделенная беспроводная LTE-сеть предприятия	cellular, lte

private_lte	Private LTE	выделенная беспроводная LTE-сеть предприятия	cellular, lte
gnodeb	gNodeB	gNodeB is a 3GPP-compliant implementation of the 5G-NR base station link	cellular, 5g-nr
enodeb	eNodeB	evolved NodeB - базовая станция сети стандарта LTE link wiki	cellular, lte
ca	CA	carrier aggregation link	cellular, lte-advanced
4t4r	MIMO	multiple input multiple output	cellular
nms	NMS	network management system	cellular
cloud-ran	cloud-RAN	cloud radio access network - облачная радиосистема	cellular
c-ran	C-RAN	cloud radio access network - облачная радиосистема	cellular
rrh	RRH	remote radio heads - радиопередающие блоки	cellular
rru	RRU	радиопередающий блок	cellular
ecpri	eCPRI	evolved Common Public Radio Interface - Интерфейс связи между радиопередающим блоком RRU и блоком управления BBU	cellular
cpri	CPRI	Common Public Radio Interface - Интерфейс связи между радиопередающим блоком RRU и блоком управления BBU	cellular
bbu	BBU	centralized baseband units - блоки управления	cellular