

Y-Packet nLOS

Long-haul communication

FEATURES

- ITU-R frequencies 2 and 4 GHz
- 4QAM to 1024QAM for longer paths and/or increased capacity
- 1+0, 2+0 XPIC and/or RLA, 1+1 Hstby configurations
- 1 Gbps of aggregate Ethernet throughput
- Electrical and optical (MM, SM) Gigabit Ethernet interfaces available
- Ultra-reliable, scalable and upgradeable for low, controlled CAPEX and OPEX
- High (+33 dBm) Transmit output power option
- High MTBF design and manufacture for ultra-reliability
- Low power consumption

PRODUCT OVERVIEW

Y-Packet nLOS is a new Youncta 2 and 4 GHz radio, capable of supporting up to 1 Gbps of aggregate traffic. The equipment is composed of a full Outdoor Unit (ODU), powered by a PoE injector (supplied together with the ODU).

The two types of supported ODUs are:

- **Y-Packet C**
Electrical ODU with GE PoE port
- **Y-Packet F**
Optical ODU with external VDC power connector and SFP port in addition to electrical GE PoE port: it can be powered either by VDC or PoE.



46...500 Mbps

-50...+50 °C

Low **CAPEX**
and **OPEX**

spans large
distances
up to **80** km

SPECIFICATIONS

2 GHz

14 MHz						
Channel	F			F'		
	F central	F start	F end	F' central	F' start	F' end
1	2 032.50	2 025.50	2 039.50	2 207.50	2 200.50	2 214.50
2	2 046.50	2 039.50	2 053.50	2 221.50	2 214.50	2 228.50
3	2 060.50	2 053.50	2 067.50	2 235.50	2 228.50	2 242.50
4	2 074.50	2 067.50	2 081.50	2 249.50	2 242.50	2 256.50
5	2 088.50	2 081.50	2 095.50	2 263.50	2 256.50	2 270.50
6	2 102.50	2 095.50	2 109.50	2 277.50	2 270.50	2 284.50

28 MHz

Channel	F			F'		
	F central	F start	F end	F' central	F' start	F' end
1	2 032.50	2 025.50	2 053.50	2 214.50	2 200.50	2 228.50
2	2 053.50	2 039.50	2 067.50	2 228.50	2 214.50	2 242.50
3	2 067.50	2 053.50	2 081.50	2 242.50	2 228.50	2 256.50
4	2 081.50	2 067.50	2 095.50	2 256.50	2 242.50	2 270.50
5	2 095.50	2 081.50	2 109.50	2 270.50	2 256.50	2 284.50

56 MHz

Channel	F			F'		
	F central	F start	F end	F' central	F' start	F' end
1	2 053.5	2 025.5	2 081.5	2 228.5	2 200.5	2 256.5
2	2 067.5	2 039.5	2 095.5	2 242.5	2 214.5	2 270.5
3	2 081.5	2 053.5	2 109.5	2 256.5	2 228.5	2 284.5

4 GHz

29 MHz

Channel	F			F'		
	F central	F start	F end	F' central	F' start	F' end
1	3 824.50	3 810.00	3 839.00	4 037.50	4 023.00	4 052.00
2	3 853.50	3 839.00	3 868.00	4 066.50	4 052.00	4 081.00
3	3 882.50	3 868.00	3 897.00	4 095.50	4 081.00	4 110.00
4	3 911.50	3 897.00	3 926.00	4 124.50	4 110.00	4 139.00
5	3 940.50	3 926.00	3 955.00	4 153.50	4 139.00	4 168.00
6	3 969.50	3 955.00	3 984.00	4 182.50	4 168.00	4 197.00

58 MHz

Channel	F			F'		
	F central	F start	F end	F' central	F' start	F' end
1	3 839.00	3 810.00	3 868.00	4 052.00	4 023.00	4 081.00
2	3 868.00	3 839.00	3 897.00	4 081.00	4 052.00	4 110.00
3	3 897.00	3 868.00	3 926.00	4 011.00	4 081.00	4 139.00
4	3 926.00	3 897.00	3 955.00	4 139.00	4 110.00	4 168.00
5	3 955.00	3 926.00	3 984.00	4 168.00	4 139.00	4 197.00

2 GHz sensitivity

Bandwidth	MOD	typ @25 °C (dBm)
14 MHz	4QAM	-90
	16QAM	-81
	32QAM	-78
	64QAM	-75
	128QAM	-72
	256QAM	-69
	512QAM	-66
28 MHz	1024QAM	-63
	4QAM	-87
	16QAM	-79
	32QAM	-76
	64QAM	-73
	128QAM	-70
	256QAM	-67
56 MHz	512QAM	-63
	1024QAM	-60
	4QAM	-84
	16QAM	-76
	32QAM	-79
	64QAM	-70
	128QAM	-67
56 MHz	256QAM	-64
	512QAM	-60
	1024QAM	-57

4 GHz sensitivity

Bandwidth	MOD	typ @25 °C (dBm)
29 MHz	4QAM	-87
	16QAM	-79
	32QAM	-76
	64QAM	-73
	128QAM	-70
	256QAM	-67
	512QAM	-63
58MHz	1024QAM	-60
	4QAM	-84
	16QAM	-76
	32QAM	-79
	64QAM	-70
	128QAM	-67
	256QAM	-64
58MHz	512QAM	-60
	1024QAM	-57