



AX3000 Dual Band GPON ONU Product Proposal (RTL9607F Solution)

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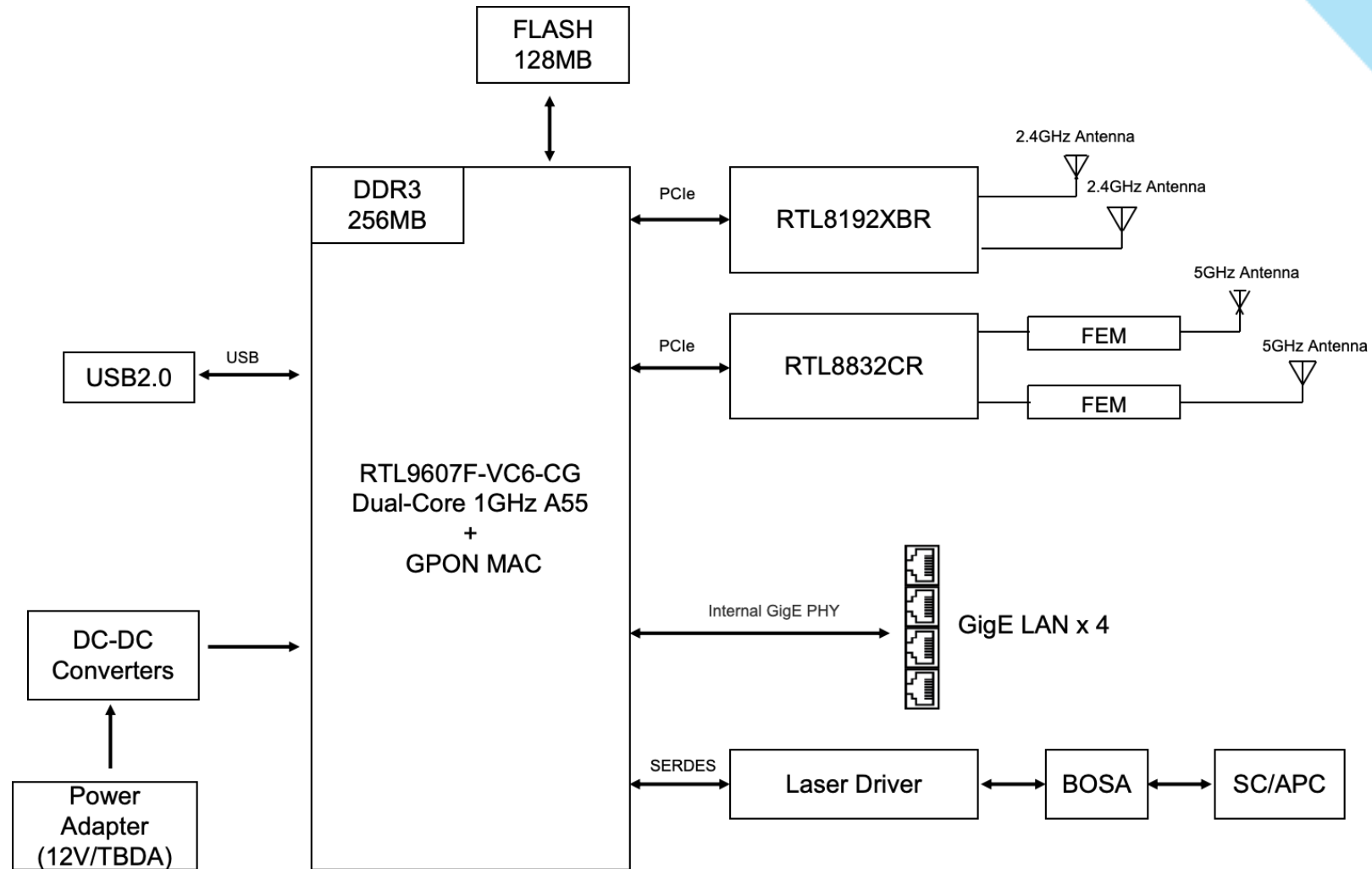
Product Specifications

Item	Descriptions
External Interfaces	Wi-Fi : IEEE 802.11a/b/g/n/ac/ax standards Supported 2.4GHz/5GHz dual-band 2x2 MU-MIMO Radio with two spatial streams, data rate up to 3000Mbps Antenna : external single band antenna(2.4G x 2 ; 5G x 2)
	WAN PON Ports : GPON SC/APC
	LAN Ethernet Ports : 4x 10/100/1000Mbps 8P8C RJ45 Ports
	Other Ports: 1 x USB2.0
Memory	NAND Flash : 128MB; DDR3(Embedded): 256MB
Connectors and Buttons	9x (G) LED activity indicators 1x (R) LED activity indicators 1x WPS Button 1x Factory Reset Button
Power Supply	12V DC Power Jack
Housing Material	HIPS
Dimensions	170mm*118mm*36mm
Environmental	Operating Temperature: 0 ~ 45 degree C

Solutions (Key Components)

Item	Descriptions
CPU with GPON MAC	RTL9607F-VC6-CG (Dual-Core ARM Cortex-A55 at 1.0 GHz)
2.4GHz RF IC	RTL8192XBR (2x2 802.11 ax/b/g/n MU-MIMO with 573.5Mbps)
5GHz RF IC	RTL8832CR (2x2 802.11ax/ac/a/n MU-MIMO with 2402Mbps)
Ethernet IC	Internal PHY 4xGigE
Bosa driver	UX3320
Memory	NAND Flash : 128MB
	DDR3 : 256MB(Embedded)
5GHz PA/FEM	BAT
Antenna	2.4GHz single band: 5dBi gain antenna
	5GHz single band: 5dBi gain antenna
Power adapter	12V/1A (target)
PCB	Main Board : 139mm x 92mm (2layers)

Block Diagram



Industrial Design





End
Thank you !