

XGS2200C10

XGS-PON SFU with Integrated Voice



The XGS2200C10 is an XGS-PON Single Family Unit (SFU) built on the Cortina Access CA8271N platform for the North America residential XGS-PON market. It integrates 256 MB DDR3 DRAM and 128 MB NAND flash, and delivers high-speed internet through a single 10G fiber WAN port, a 10G LAN port, and a GbE LAN port — plus dual RJ-11 ports for VoIP service.



- 9.953 Gbps symmetrical XGS-PON, compliant with ITU-T G.9807
- 10G fiber WAN, 10G RJ45 LAN, and GbE RJ45 LAN in one device
- Dual RJ-11 FXS ports with full VoIP feature set, including TR-104
- Downstream/upstream 128-bit AES encryption and RS(248,216) FEC
- IPSec / PPTP / L2TP VPN pass-through, NAT/SPI firewall
- CableLabs XGS-PON Interoperability certified

Hardware Specifications

Device Parameters	
CPU	Cortina Access CA8271N MIPS Dual Core 666 MHz processor
Flash	128 MB (128M x8 bit) Serial NAND Flash
DRAM	256 MB DDR3 (128M x16 bit)
WAN	1 × 10G Fiber WAN port with SC/APC connector
LAN	1 × 10G RJ45 LAN port + 1 × GbE RJ45 LAN port
Voice	2 × RJ-11 FXS Port
DC-In	1 × DC-Jack Connector
Power Supply	Input: 100–240V / 50–60Hz; Output: 12V/1A external supply, US plug, IEC 60950-1/62386-1 compliant
Button	Power, Reset, WPS
LEDs	8 × LED (Power / PON / LAN1 / LAN2 / Phone1 / Phone2 / LOS / Alarm)
Dimensions	Product: 150 × 110 × 38 mm (L × W × H)
Temperature	Operating: 0°C to 40°C; Storage: -40°C to 70°C
Humidity	Operating/Storage: 5% to 95%, Non-condensing

PON Specifications

Category	Description
PON Technology	XGS-PON
Standards	Compliant with ITU-T G.9807
Security	Downstream/Upstream 128-bit AES Decryption/Encryption
Resource Capacity	32 T-CONTs, 256 GEM Port-IDs
QoS Features	DSCP/802.1p/TC arbitrary mapping to queues and flows, ACL support
Error Correction	Downstream/Upstream Forward Error Correction (FEC) with RS(248, 216) decoder/encoder

Software Features

Category	Description
Multicast	IGMP v2/v3 Snooping, IGMP Proxy
Management	Support OMCI, TR-069 with TR-181, CLI, Web
Diagnostic	Upload/Download Ping, traceroute, UDP Echo DNS lookup diagnose; Rogue ONU self-diagnosis & isolation; Dying Gasp notification
Firmware Upgrade	Remote/Local firmware upgrade via OMCI, TR-069, Web; Dual Firmware Image
Configuration	Upload / Download configuration; Revert to factory default via Web, TR-069, OMCI
VoIP	Call waiting, call hold, call forward, 3-way conference, Caller ID, speed dial, anonymous call block, TR-104
VPN	IPSec, PPTP, L2TP VPN Pass-through
Security	NAT / SPI Firewall, MAC/IP/URL filtering, IP and MAC address binding, LAN/WAN access control

Certifications

REGULATION

FCC Class B, UL Certificated

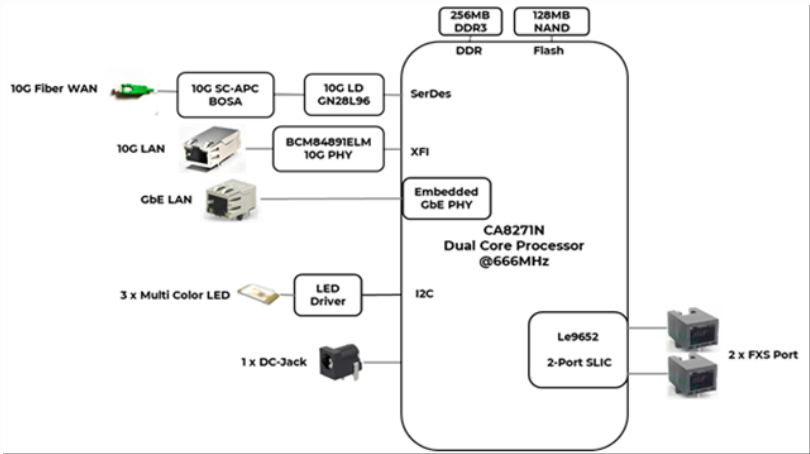
INDUSTRY CERT.

**CableLabs XGS-PON
Interoperability**

ENVIRONMENTAL

RoHS Compliant

System Block Diagram



Mechanical Specifications

Item	
Housing Size	150 mm × 110 mm × 38 mm (L × W × H)
Housing Color	Black
Housing Materials	Housing: ABS; Light pipe: PC



Photos shown for reference only; final product may vary slightly.