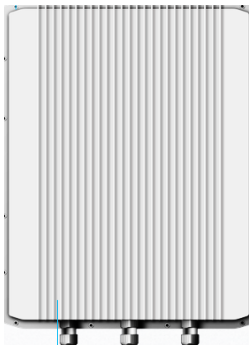


## SRI9000-G.fast 8/16 Port Distribution Point Unit

Hardened Rackmount | OSP G.fast CO-DPU

### KEY FEATURES:

- Extending Ethernet Services to sites at fiber-like speeds with existing copper infrastructure
- 150 Mbps at 1500 feet
- 1 Gbps on single pair
- G.fast Port Bonding
- Industrial CLI, Telnet, SSH
- Flexible and Rapid Service Deployment
- Flexible configurations (Rack, Pole/OSP)
- Reverse powered mid-repeater option
- Low Delay, Jitter, and Packet Loss Comprehensive and easy OAM & P functions in provisioning and management
- Die-casting enclosure (OSP version)
- Rack Mountable (cabinet-hardened rack version)
- Last Gasp, Dying Gasp
- MB Primary surge protection



### DESCRIPTION:

The G.fast DPU System is designed to provide bonded high-speed Ethernet in the First Mile services using G.fast on existing copper infrastructure. It is a bridge mode device that delivers Ethernet services with symmetrical bandwidth at rates up to 1000 Mbps/pair.

The G.fast DPU System ensures high reliability, low OPx and maximum throughput. Copper bonding technology enables the delivery of higher bandwidth at longer distances over multiple copper pairs, it is an

excellent alternative where fiber is not economically feasible and other technology such as ADSL and VDSL are not able to meet bandwidth requirements. This "Ethernet-pure" solution provides a seamless integration today for tomorrow's networks. G.fast extends the reach of Ethernet services using bonded coppers.

Deployment of Ethernet services using G.fast CPEs is quick and simple. Typically used in point-to-point connections between offices, the G.fast DPU System provides ultra-high speed connectivity that is ideal for enterprises to deliver business-class Ethernet service. User-friendly Ethernet makes it possible to save unnecessary truck rolls and minimize training costs leading to reduced risk and quick ROI.

#### **SPECIFICATIONS:**

- ITU-T G.9700, G.9701, G.9700, G.9701
- IEEE 802.3 10/100/1000 Base-T
- IEEE 802.1q VLAN

#### **INTERFACE:**

- 8/16 – WAN (G.fast) Ports (RJ-11)
- 2- SC, SFP, SFP+, GPON 10GE Fiber Ports
- 1-Network Management Port (Ethernet)
- 1-Serial Console Port (DB-9)

#### **PROTOCOLS:**

- 802.1d Transparent Bridging
- Up to 2K MAC Address learning bridge

#### **LAN FEATURES:**

- 10/100/1000BASE-T auto-negotiation
- Port status, VLAN setup, MAC learning

#### **WAN FEATURES:**

- Network-edge fiber-to-the-distribution-point (FTTdp) management technology
- Reversed Powered
- G.fast-enabled TES7000 Switch CPE
- Band Plan usage up to 106MHz
- Loop performance compliant table
- Configuration for Notching Mask (NM)
- Backward compatible with VDSL2

#### **ADVANCED G.FAST FEATURES:**

- Operates in EFM mode
- G.9700 and G.9701 standards compliant
- Business class fiber-speed Ethernet Service
- Rate-adaptive according to line conditions
- Retransmission functions
- Self-FEXT cancellation (vectoring)
- CLV (Chip Level Vectoring)
- Dynamic Resource Allocation (DRA)
- Discontinuous Operation Interval (DOI)
- OLR (On-line Reconfiguration Functionalities)
- SRA (Seamless Rate Adaptation)
- TIGA (Transmitter Initiated Gain Adjustment)

- RPA (RMC Parameters Adjustment)
- Fast Rate Adaptation (FRA)
- Support line diagnostic during show-time
- Hlog (Channel Characteristics function)
- QLN (Quiet Line Noise)
- Bit loading table, Bit swapping
- Double-End Line Test (DELT)
- Single-End Line Test (SELT) function

#### **MANAGEMENT:**

- Menu-driven Industrial Command line interface (ICLI ) for local console, telnet, SSH access
- Password protected, encrypted management and access control list
- SNMP v1/v2 (RFC1157/1901/1905) agent and MIB II (RFC1213/1493)
- EFM OAM (IEEE 802.3ah)
- Network-edge fiber-to-the-distribution-point (FTTdp) management technology

#### **VLAN SUPPORT:**

- IEEE 802.1q VLAN Tagging
- Port Based VLAN
- Up to 8 802.1q VLANs (ID Range1~4094)
- VLAN Stacking (Q-in-Q)

#### **QoS SUPPORT:**

- Rate limiting by rule-based/port-based
- Traffic classification based port/802.1p/ DSCP
- WRR (Weighted Round Robin)/ SPQ (Strict Priority Queuing) scheduling algorithm

#### **APPLICATIONS:**

- Metro Ethernet Extensions
- Ultra Fast Internet Access on existing Copper
- Leased Lines Replacement
- Point-to-Point (Ethernet Extension)
- Cellular/Mobile Backhaul

#### **LED INDICATORS:**

- LAN : Link/Act, 10/100 per port
- WAN: Link per loop
- GPON port
- G.fast line ports

#### **POWER SUPPLY:**

90 ~ 240V, 50~60 Hz, 60W Max

#### **DRY CONTACT ALARM INDICATORS:**

Critical or Major fault (power input failure)

#### **ENVIRONMENT:**

- Operating Temperature: -40°C ~ 65°C
- Operating Humidity: 98% (Non-Condensing)

**CERTIFICATIONS:**

- CISPR22/CISPR 24, EN6100-3-2, EN61003-3, UL/CB60950, GR-1089, ITU-t K.20, FCC B
- IEC 60068-26, 2-29, 2-32, 2-1, 2-30, 2-14

Aggregate bit rates single pair subscriber line

<b>Distance (ft)</b>	<b>Rate (mbps)</b>
200	1000
700	700
1000	400
1500	150
2500	75
3000	50
5000	30

**Specifications are subject to change without notice.**

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## eXtreme copper

**Corporate Office**

107 N. Reino Road  
Suite 233  
Newbury Park, CA 91320

**Research & Development Center**

2243 Agate Court  
Unit E  
Simi Valley, CA 93065

**Contact Information**

Phone: 818.230.2477  
Fax: 818.292.8590  
sales@extremecopper.com

**[www.extremecopper.com](http://www.extremecopper.com)**