The Edgecore ECS4130-28T is a Gigabit Ethernet access switch with four 10G SFP+ uplinks. The switch is ideal for Internet Service Providers (ISPs) and Multiple System Operators (MSOs) wanting to provide home users with triple-play services and up to a Gigabit of bandwidth. It is also an ideal Gigabit access switch for SMB, enterprise, and campus networks. The ECS4130-28T is packed with features that bring high availability, comprehensive security, robust multicast control, and advance QoS to the network edge, while maintaining simple management. The switch also supports the most advance IPv6 management, IPv6 security, and IPv6 multicast control in accordance with the growth of IPv6 deployment.

**Key Features and Benefits**

- Best price-performance Gigabit Ethernet access switch with 10G uplinks
- Compact size for space-saving installation
- Optional AC or DC power input
- Low power consumption with fanless and noiseless design
- ITU-T G.8032 ERPS L2 ring protection with <50 convergence time
- Comprehensive and field-proven software features for ISP/Carrier to provide broadband access, IPTV services
- L2+/Lite L3 feature upgrades the L2 switch with routing functionality
- Simple management (CLI, SNMP, Web)
- Complete Private MIB to fully control and monitor the switch via customer’s EMS
## Interfaces

![Image of L2+/L3 Lite Gigabit Ethernet Switch]

**Description**

<table>
<thead>
<tr>
<th>No.</th>
<th>Interface Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>24 x RJ-45 10/100/1000BASE-T ports</td>
</tr>
<tr>
<td>2.</td>
<td>4 x SFP+ 10 Gigabit uplink ports</td>
</tr>
<tr>
<td>3.</td>
<td>RJ-45 console port</td>
</tr>
<tr>
<td>4.</td>
<td>USB management port</td>
</tr>
<tr>
<td>5.</td>
<td>DC power input</td>
</tr>
<tr>
<td>6.</td>
<td>AC power input</td>
</tr>
</tbody>
</table>

*www.edge-core.com*
### Datasheet

#### L2+/L3 Lite Gigabit Ethernet Switch

<table>
<thead>
<tr>
<th>Product Model</th>
<th>ECS4130-28T</th>
<th>ECS4130-28T-DC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Image</strong></td>
<td><img src="image" alt="Product Image" /></td>
<td><img src="image" alt="Product Image" /></td>
</tr>
<tr>
<td><strong>Port</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RJ-45 10/100/1000BASE-T Ports</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>SFP+ 10 Gigabit Uplink Ports</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>RJ-45 Console Port</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>USB port</td>
<td>1</td>
<td>1</td>
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<tr>
<td><strong>Performance</strong></td>
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</tr>
<tr>
<td>Switching Capacity</td>
<td>128 Gbps</td>
<td>128 Gbps</td>
</tr>
<tr>
<td>Forwarding Rate</td>
<td>95 Mpps</td>
<td>95 Mpps</td>
</tr>
<tr>
<td>Flash Memory</td>
<td>1 G</td>
<td>1 G</td>
</tr>
<tr>
<td>DRAM</td>
<td>512MB</td>
<td>512 MB</td>
</tr>
<tr>
<td>MAC Address Table</td>
<td>16 K</td>
<td>16 K</td>
</tr>
<tr>
<td>Jumbo Frames</td>
<td>10 KB</td>
<td>10 KB</td>
</tr>
<tr>
<td>Auto-negotiation, Auto-MDI/MDIX</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension (W x D x H) cm</td>
<td>33 x 23 x 4.4 cm</td>
<td>33 x 23 x 4.4 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>2 kg</td>
<td>2 kg</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC 100-240 VAC, 50/60 Hz</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DC 36-60 V, 2 A</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Max System Power Consumption (Watts)</td>
<td>23 W (full loading)</td>
<td>23 W (full loading)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
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</tr>
<tr>
<td>Operating Temperature</td>
<td>0 ~ 45ºC</td>
<td>0 ~ 45ºC</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 ~ 70ºC</td>
<td>-40 ~ 70ºC</td>
</tr>
<tr>
<td>Operating Humidity (non-condensing)</td>
<td>5% to 95%</td>
<td>5% to 95%</td>
</tr>
<tr>
<td>Storage Humidity (non-condensing)</td>
<td>5% to 95%</td>
<td>5% to 95%</td>
</tr>
<tr>
<td>Environmental Regulation compliance: WEEE</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Environmental Regulation compliance: RoHS</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
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<td></td>
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<tr>
<td>FCC Class A</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>CE</td>
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<td>Yes</td>
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<tr>
<td>Safety Compliance: CB</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Safety Compliance: UL</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

www.edge-core.com
**L2 Features**
- 1000BASE-T copper interfaces
- Auto-negotiation for port speed and duplex mode
- Auto MDI/MDI-X
- Dual-speed (1G and 10G) fiber interfaces
- SFP+ Ports Support:
  - IEEE 802.3ae changeable (10GBASE-SR/LR)
  - IEEE 802.3z (1000BASE-SX/LX) transceivers, and 10G DAC/AOC
- Digital Diagnostic Monitoring (DDM) on 10G SFP+ port
- Flow Control:
  - IEEE 802.3x for full-duplex mode
  - Back-Pressure for half-duplex mode
- Jumbo frames 10KB
- Broadcast/Multicast/ Unknown Unicast Storm Control
- Spanning Tree Protocol:
  - IEEE 802.1D Spanning Tree Protocol (STP)
  - IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
  - IEEE 802.1s Multiple Spanning Tree Protocol (MSTP), 64 instances
  - BPDU Guard
  - BPDU filtering
  - Root Guard
  - BPDU transparent
- Loopback detection
- Non-Spanning Tree Loopback detection
- ITU-T G.8032 Ethernet Ring Protection:
  - Sub 50 msec convergence
  - Revertive operation mode
  - Multiple-ring network
- VLANs:
  - Supports 4K VLAN
  - Port-based VLAN
  - EEE 802.1Q VLAN
  - GVRP
  - IEEE 802.1v Protocol-based VLAN
  - IP Subnet-based VLAN
  - MAC-based VLAN
  - Traffic Segmentation
- L2 Virtual Private VLAN:
  - Q-in-Q
  - L2 Protocol tunneling (xSTP, CDP, VTP and PVST+, LLDP)
  - CDP/PVST+ Filtering
  - Selective Q-in-Q
- Link Aggregation:
  - Static Trunk
  - IEEE 802.3ad Link Aggregation Control Protocol
  - Trunk Groups: 16, up to 8 GE/4 10G ports per group
  - Load Balancing: SA+DA, SA, DA, SIP+DIP, SIP, DIP
- IGMP Snooping:
  - IGMP v1/v2/v3 snooping
  - IGMP proxy reporting
  - IGMP Filtering
  - IGMP Throttling
  - IGMP Immediate Leave
  - IGMP Querier
- MVR (Multicast VLAN Registration): Supports 5 multicast VLANs
- Port mirroring
- Remote port mirror (RSPAN)

**QoS Features**
- Priority Queues: 8 hardware queues per port
- Traffic classification:
  - IEEE 802.1p CoS
  - IP Precedence
  - DSCP
- MAC Access control list (Source/Destination MAC, Ether type, Priority ID/ VLAN ID)
- IP standard access control list (Source IP)
- IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number)
- Traffic Scheduling:
  - Strict Priority
  - Weighted Round Robin
  - Strict + WRR
- Ingress policy map (policy rate, remark CoS)
- Egress policy map (policy rate, remark CoS/DSCP)
- Rate Limiting (Ingress and Egress, per port base)
  - GE: Resolution 64Kbps ~ 1,000Mbps
  - 10G: Resolution 64Kbps ~ 10,000Mbps
- Auto Traffic Control

**Security**
- Port security
- IEEE 802.1X port-based and MAC-based authentication
- Dynamic VLAN Assignment, Auto QoS
- MAC authentication
- Web authentication
- Voice VLAN
- Guest VLAN
- L2/L3/L4 Access Control List:
  - MAC Access control list (Source/Destination MAC, Ether type, Priority ID/ VLAN ID)
  - IP standard access control list (Source IP)
  - IP extended access control list (Source/Destination IP, Protocol, TCP/UDP port number)
- IPv6 ACL
- DHCP Snooping
- DHCP Option 82
- DHCP Option 82 Relay
- IP Source Guard
- PPPoE IA
- Dynamic ARP Inspection
- Denial of Service
- Login Security
- RADIUS authentication
- RADIUS accounting
- TACACS + authentication
- TACACS + accounting
- TACACS + authorization
- Management Interface Access Filtering (SNMP, Web, Telnet)
- SSH (v1.5/v2.0) for security Telnet
- SSL for HTTPS
- SNMPv3

**Green Ethernet**
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
Datasheet

L2+/L3 Lite Gigabit Ethernet Switch

IPv6 Features
- IPv4/IPv6 dual protocol stack
- IPv6 Address Types Stack: Unicast
- IPv6 Neighbor Discovery:
  - Duplicate address
  - Address resolution
  - Unreachable neighbor detection
- Stateless auto-configuration
- Manual configuration
- Remote IPv6 ping
- IPv6 Telnet support
- HTTP over IPv6
- SNMP over IPv6
- IPv6 Syslog support
- IPv6 TFTP support
- MLD Snooping v1/v2
- IPv6 source guard
- DHCPv6 snooping
- MVR6

Management
- Switch Management:
  - CLI via console port or Telnet
  - Web management
  - SNMP v1, v2c, v3
- Firmware and Configuration:
  - Firmware upgrade via TFTP/HTTP/FTP/SFTP server
  - Multiple configuration files
  - Configuration file upload/download via TFTP/HTTP/FTP/SFTP server
- RMON (groups 1, 2, 3 and 9)
- BOOTP, DHCP client for IP address assignment
- DHCP dynamic provision option 66,67
- SNTP
- Syslog (local Flash)
- Remotelog (RFC3164)
- SMTP (E-mail Notification)
- Supports LLDP (802.1ab)
- sFlow v4, v5

Routing
- IPv4 Static Route

Safety
- UL (CSA 22.2, NO 60950-1 and UL60950-1)
- CB (IEC60950-1)

Power Supply
- Power input:
  - 100 to 240 VAC, 50/60 Hz (ECS4130-28T)
  - DC in 36-60V (ECS4130-28T-DC)

Supported Transceivers and Cables
- 1000BASE-SX/LX/EX/ZX/RJ45/BD43-10-I/BD34-10-I
- 10GBASE-SR/LR/ER/ZR
- 10GBASE-AOC Cable
  - Note: More optics and detailed cabling information can be found at www.edge-core.com.

Electromagnetic Compatibility
- CE Mark
- FCC Class A
- CISPR Class A
- BSMI

Environmental Specifications
- Temperature:
  - 0°C to 45°C (standard operating)
  - -40°C to 70°C (non-operating)
- Humidity: 5% to 95% (non-condensing)

Warranty
Please check www.edge-core.com for the warranty terms in your country.

For More Information
To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

About Edgecore Networks Corporation
Edgecore Networks Corporation is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edgecore Networks Corporation delivers the software and systems that transform the way the world connects. Edgecore Networks Corporation serves customers and partners worldwide. Additional information can be found at www.edge-core.com.

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore data center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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