**KY-3170™XM / DYMEC 3170™ Series**

**6 x 4 Port, Managed, Ten Gigabit, Temperature Hardened, ITS, Industrial, Input File, Ethernet Switch with 4- 1/10 GbE Uplinks – Low Power / NSA End Point Certified with ERPSv2**



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|  | * **6 x RJ45 Gigabit Ports**
* **4x 1GbE /10 GbE SFP Slots**
* **Protection – IP30 / Fanless, Convection Cooled**
* **NSA Network Endpoint Guideline Certified for Console Port Shutdown and Chassis Full Security (Patent Pending)**
* 5 Year / Limited Lifetime Warranty
* Input File / Low Power Industrial Ethernet Switch
* Built for harsh environments & wide temperature ranges
* Edge Computing & Transport Networks
* RSTP, MSTP, ERPS, LACP for Network Redundancy
* QoS CoS / DSCP Advanced Queueing
* Supports IGMP Snooping v1/v2/v3, up to 1024 groups
* DHCP Relay Option 82 Policy for IP address assignment
* SNMP v1/v2c/v3 for network management
* Supports Storm Protection / Broadcast Storm Suppression
* USB storage for configuration-free replacement
* Supports industrial automation protocols Ethernet/IP and Modbus TCP
* Secure File Transfer Protocol (SFTP) & Trivial File Transfer Protocol (TFTP)

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|  **Specifications** |

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| **Technology** |
| **Standards** | IEEE 802.3 10BaseTIEEE 802.3u 100BaseTXIEEE 802.3ab 1000BaseTIEEE 802.3ae 10GBase over FiberIEEE 802.3x Flow ControlIEEE 802.3ad/802.1AX LACPIEEE 802.1D Spanning Tree ProtocolIEEE 802.1w Rapid STPIEEE 802.1s Multiple STPITU-T G.8032 / Y.1344 ERPSIEEE 802.1Q VLAN TaggingIEEE 802.1ad Stacked VLANsIEEE 802.1p Class of ServiceIEEE 802.1X Network AuthenticationIEEE 802.1AB LLDP |
| **Processing Type** | Store and Forward |
| **Switch Properties** |
| **Priority Queues** | 8 Queues |
| **Jumbo Frame** | 16000bytes |
| **MAC Table Size** | 16K |
| **VLAN Table Size** | 4094 |
| **IGMP Group** | 1024 |
| **Packet Buffer** | 12Mbits |
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| **Software Features** |
| **Network Redundancy** | RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP |
| **Security** | 802.1X, RADIUS, TACACS+, SSL, SSH, ACL\* |
| **Management** | IPv4, IPv6, Web, Telnet, Serial Console, CLI, SFTP, SNMP v1/v2c/v3, uPnP |
| **Diagnostics** | RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, DDM, Fiber & Copper Cable Diagnostics |
| **Configuration** | DHCP Server/Client, Relay Option 82, TFTP, SFTP, USB |
| **Filter** | 802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning, MLDv1/v2 Snooping\* |
| **Time Sync.** | NTP |
| **QoS** | CoS, DSCP, WRR/SPQ Queuing, Storm Protection |
| **Industrial Profiles** | Ethernet/IP, Modbus TCP |
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| **Interfaces** |
| **RJ45 Ports** | 6 x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X |
| **Fiber Ports** | 4 x 1/10 GbE SFP Slots |
| **LED Indicators** | **Per unit:** PWR1, Fault, Ring Master, Ring State**Ports:** Link/Active with highest speed(Green), low speed(Amber) |
| **Button** | Multiple function reset button |
| **Serial Console** | 1 x RS232 in RJ45 connector with console cable, 115.2Kbps, 8N1 |
| **Storage** | 1 x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog |
| **Power Requirements** |
| **Operation Voltage** | 12-48 Volts DC |
| **Connection** | PCB Golden Finger |
| **Power Consumption** | 0.67A@24 Volts DC |
| **Protection** | Overload Current Protected, Reverse Polarity Protected |
| **Mechanical Construction** |
| **Enclosure** | Military Grade Steel / Aluminum |
| **Protection Class** | IP30 |
| **Dimensions** | 58 x 114 x 205 mm (W x H x D) |
| **Weight** | 0.87 kg |
| **Mounting** | Rack Mounting with Rail Slots |
| **Environmental Limits** |
| **Operating Temperature** | Extended: -40°C ~ 80°C (-40°F ~ 176°F) |
| **Storage Temperature** | -40°C ~ 85°C (40°F ~ 185°F) |
| **Ambient Relative Humidity** | 5 to 95%, (Non-Condensing) |
| **Regulatory Approvals** |
| **Altitude – GB4943.1-2011** | 0 ~ 5000 Meters |
| **EMI** | FCC Part 15 Subpart B Class ACE EN 55032 Class A |
| **EMS** | IEC61000-4-2 (ESD)IEC61000-4-3 (RS)IEC61000-4-4 (EFT)IEC61000-4-5 (Surge)IEC61000-4-6 (CS)IEC61000-4-8 (Magnetic Field) |
| **Free Fall** | IEC60068-2-32 |
| **Shock** | IEC60068-2-27 |
| **Vibration** | IEC60068-2-6 |
| **Green** | RoHS Compliant |
| **Certifications** | UL 60950-1/62368 61000-6-2 / FCC / NEMA TS-261000-6-4 / ITUT / IEEE |
| **MTBF****MIL-HDBK-217****IEC 62380** | >167,000 hours |
| **Warranty** | 5 Years / Limited Lifetime |

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|  **Note from DYMEC development.** **In a continuing effort of improvement and updated technology, product specifications are subject to change without notice.** |
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|  **Dimensions (unit = mm)** |
| **DYMEC 3170 Supports: 2 & 4 Wire LONG RANGE ETHERNET / VDSL2 SFP Modem**With long reach coverage, high noise immunity, and compact board size, **DYMEC KY-Pro-180-CRD Ruggedized** SFP modem is an ideal upgrade for your Enterprise or Industry applications. Used in Pairs.**VDSL2 – Long Range Ethernet Application (KY-Pro-180-CRD)**

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| MECHANICAL DIMENSIONS  | Copper Ring Fiber Ring Indu |

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**DYMEC KY-SFP-T**

Copper SFP Transceiver – Used to Add Additional RJ-45 Copper Ports to your KY-3170 Series Switch

Easy to Install & Configure – GUI Selectable

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|  **Ordering Information** |
| **KY-3170™XM****DYMEC 3170™ Series** | 6 x 4 Port, Industrial, Managed, 10GbE, ITS Ethernet Switch with 4 x 1 / 10 GbE Uplinks - 6 x 10/100/1000BaseT(X) + 4 x 1 /10 GbE SFP Slots - Operating Temperature: -40°C ~ 80°C (-40°F ~ 176°F)**NSA Guideline Certified for Console Port Shutdown and Chassis Full Security** |

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| **KY-3170™XM/2****DYMEC 3170™ Series** | 6 x 4 Port, Industrial, Managed, 1 / 10GbE, ITS Ethernet Switch with 4 x 1 / 10 GbE Uplinks (Configured 8 Copper RJ45 Ports) - 6 x 10/100/1000BaseT(X) + 2 x 10/100/1000 Copper SFP + 2 x 1 /10 GbE SFP Slots - Operating Temperature: -40°C ~ 80°C (-40°F ~ 176°F)**NSA Guideline Certified for Console Port Shutdown and Chassis Full Security** |



**DYMEC – Temperature Hardened, American Made, Ruggedized, NSA Certified Endpoint, Industrial Ethernet Switches / Routers for SCADA, ITS, Transportation, Automation, Power Utilities, Edge Computing, AI and Industrial Control Systems. Made in USA. TAA Compliant. Uses SFP’s / BiDi SFP’s / Mini Gbic & VDSL2 Industrial SFP for Long Range Ethernet**

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