**KY-3170™XM / DYMEC 3170™ Series**

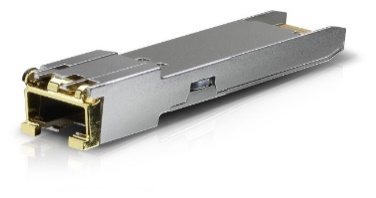
**6 x 4 Port, Managed, Ten Gigabit, Temperature Hardened, ITS, Industrial, Input File, Ethernet Switch with 4- 1/10 GbE Uplinks – Low Power / NSA End Point Certified with ERPSv2**



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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)   A close up of a sign  Description automatically generated |
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| **Specifications** | |

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| **Technology** | |
| **Standards** | IEEE 802.3 10BaseT  IEEE 802.3u 100BaseTX  IEEE 802.3ab 1000BaseT  IEEE 802.3ae 10GBase over Fiber  IEEE 802.3x Flow Control  IEEE 802.3ad/802.1AX LACP  IEEE 802.1D Spanning Tree Protocol  IEEE 802.1w Rapid STP  IEEE 802.1s Multiple STP  ITU-T G.8032 / Y.1344 ERPS  IEEE 802.1Q VLAN Tagging  IEEE 802.1ad Stacked VLANs  IEEE 802.1p Class of Service  IEEE 802.1X Network Authentication  IEEE 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](mailto: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 A  CE 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-2  61000-6-4 / 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)**   |  |  | | --- | --- | | MECHANICAL DIMENSIONS | Copper Ring Fiber Ring Indu | |

**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** |

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**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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